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No. 559.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *January 31, 1907.*

MONTHLY LIST OF PUBLICATIONS.

[JANUARY, 1907.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1905.

Soil Survey of Tangipahoa Parish, Louisiana. By A. M. Griffen and Thomas A. Caine. Pp. 27, fig. 1, map.

Soil Survey of Sarpy County, Nebraska. By A. E. Kocher and Lewis A. Hurst. Pp. 21, fig. 1, map.

Soil Survey of Montgomery County, Pennsylvania. By Henry J. Wilder, A. T. Strahorn, and W. J. Geib. Pp. 41, fig. 1, map.

Soil Survey of Portage County, Wisconsin. By F. N. Meeker and R. T. Avon Burke. Pp. 32, fig. 1, map.

REPORTS—NEW.

Report of the Forester for 1906. By Gifford Pinchot. Pp. 43. (From Annual Reports, Department of Agriculture.)

Report of the Editor for 1906. By Geo. Wm. Hill. Pp. 94. (From Annual Reports, Department of Agriculture.)

Report of the Chief of the Bureau of Plant Industry for 1906. By B. T. Galloway. Pp. 96. (From Annual Reports, Department of Agriculture.)

BULLETINS—NEW.

The Milking Machine as a Factor in Dairying. (A preliminary report.) 1.—Practical Studies of a Milking Machine. By C. B. Lane, Assistant Chief, Dairy Division, Bureau of Animal Industry. 2.—Bacteriological Studies of a Milking Machine. By W. A. Stocking, jr., Bacteriologist, Storrs Agricultural Experiment Station, Connecticut. Pp. 55, pls. 4, figs. 6. (Bulletin No. 92, Bureau of Animal Industry.) Price 15 cents.

Hibernation and Development of the Cotton Boll Weevil. By E. Dwight Sanderson, formerly State Entomologist of Texas. Pp. iv, 1–38, figs. 6. (Bulletin No. 63, Part 1, Bureau of Entomology.) Price 5 cents.

The Strawberry Weevil in the South-Central States in 1905. By A. W. Morrill, Special Field Agent. Pp. iii, 59–62. (Bulletin No. 63, Part VI, Bureau of Entomology.) Price 5 cents.

Corn-harvesting Machinery. By C. J. Zintheo, Expert in Farm Mechanics. Pp. 48, pls. 4, figs. 24. (Bulletin No. 173, Office of Experiment Stations.) Price 10 cents.

Organization Lists of the Agricultural Colleges and Experiment Stations in the United

- States. December, 1906. Pp. 100. (Bulletin No. 176, Office of Experiment Stations.) Price 15 cents.
- Evaporation Losses in Irrigation and Water Requirements of Crops. By Samuel Fortier, Irrigation Engineer in Charge of Pacific District, Irrigation and Drainage Investigations. Pp. 64, pls. 2, figs. 19. (Bulletin No. 177, Office of Experiment Stations.) Price 10 cents.
- Wolves in Relation to Stock, Game, and the National Forest Reserves. By Vernon Bailey, Assistant in Charge of Geographic Distribution, Biological Survey. Pp. 31, pls. 3, figs. 5. (Bulletin No. 72, Forest Service.) Price 10 cents.
- A Quick Method for the Determination of Moisture in Grain. By Edgar Brown, Botanist in Charge of the Seed Laboratory, and J. W. T. Duvel, Assistant in the Seed Laboratory. Pp. 24, figs. 12. (Bulletin No. 99, Bureau of Plant Industry.) Price 5 cents.
- Summary of Recent Investigations of the Value of Cacti as Stock Food. By David Griffiths, Assistant Agrostologist, Farm Management Investigations, Bureau of Plant Industry, and R. F. Hare, Chemist, New Mexico College of Agriculture and Mechanic Arts. Pp. 16, pl. 1. (Bulletin No. 102, Part 1, Bureau of Plant Industry.) Price 5 cents.
- A Successful Dairy Farm. By L. G. Dodge, Scientific Assistant, Farm Management Investigations. Pp. 7, pl. 1. (Bulletin No. 102, Part 2, Bureau of Plant Industry.) Price 5 cents.
- The Decomposition of the Feldspars. By Allerton S. Cushman, Assistant Director, Office of Public Roads, and Prevost Hubbard, Assistant Chemist, Office of Public Roads. Pp. 29, figs. 6. (Bulletin No. 28, Office of Public Roads.) Price 10 cents.

BULLETIN—REPRINT.

- Bulletin No. 46, revised edition, Division of Chemistry. Methods of Analysis Adopted by the Association of Official Agricultural Chemists, November 11, 12, and 14, 1898. Price 5 cents.

CIRCULARS—NEW.

- A Rapid Method for the Determination of Water in Butter. By C. E. Gray, Assistant Dairyman in Charge of Butter Investigations, Dairy Division, Bureau of Animal Industry. Pp. 6, figs. 2. (Circular No. 100, Bureau of Animal Industry.)
- The New Meat Inspection Law and Its Bearing upon the Production and Handling of Meats. By George P. McCabe, Solicitor for the Department of Agriculture. Pp. 16. (Circular No. 101, Bureau of Animal Industry.)
- Publications of the Office of Experiment Stations from Its Organization to June 30, 1906. Pp. 12. (Circular No. 70, Office of Experiment Stations.)
- Report of Committee on Experiment Station Organization and Policy. Pp. 7. (Circular No. 71, Office of Experiment Stations.)
- Report of Committee on Extension Work. Pp. 8. (Circular No. 72, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during November and December, 1906. Pp. 5. (Doc. 964, Office of Experiment Stations.)
- Wood Used for Tight Cooperage Stock in 1905. By H. M. Hale, Forest Assistant. Pp. 8. (Circular No. 53, Forest Service.)
- How to Cultivate and Care for Forest Plantations on the Semiarid Plains. (Forest Planting Leaflet.) Pp. 4. (Circular No. 54, Forest Service.)
- How to Pack and Ship Young Forest Trees. (Forest Planting Leaflet.) Pp. 2, fig. 1. (Circular No. 55, Forest Service.)
- Bur Oak, *Quercus macrocarpa*. (Forest Planting Leaflet.) Pp. 3. (Circular No. 56, Forest Service.)
- Jack Pine, *Pinus divaricata*. (Forest Planting Leaflet.) Pp. 2. (Circular No. 57, Forest Service.)
- Red Oak, *Quercus rubra*. (Forest Planting Leaflet.) Pp. 3. (Circular No. 58, Forest Service.)
- Eucalypts. (Forest Planting Leaflet.) Pp. 6. (Circular No. 59, Forest Service.)
- Red Pine, *Pinus resinosa*. (Forest Planting Leaflet.) Pp. 3. (Circular No. 60, Forest Service.)
- Shagbark Hickory, *Hicoria ovata*. (Forest Planting Leaflet.) Pp. 3. (Circular No. 62, Forest Service.)
- Basswood, *Tilia americana*. (Forest Planting Leaflet.) Pp. 3. (Circular No. 63, Forest Service.)
- Black Locust, *Robinia pseudacacia*. (Forest Planting Leaflet.) Pp. 4. (Circular No. 64, Forest Service.)
- Norway Spruce, *Picea excelsa*. (Forest Planting Leaflet.) Pp. 4. (Circular No. 65, Forest Service.)
- White Elm, *Ulmus americana*. (Forest Planting Leaflet.) Pp. 3. (Circular No. 66, Forest Service.)
- White Pine, *Pinus strobus*. (Forest Planting Leaflet.) Pp. 6. (Circular No. 67, Forest Service.)
- Scotch Pine, *Pinus sylvestris*. (Forest Planting Leaflet.) Pp. 4. (Circular No. 68, Forest Service.)
- Fence-post Trees. (Forest Planting Leaflet.) Pp. 4. (Circular No. 69, Forest Service.)
- European Larch, *Larix europæa*. (Forest Planting Leaflet.) Pp. 3. (Circular No. 70, Forest Service.)
- Chestnut, *Castanea dentata*. (Forest Planting Leaflet.) Pp. 4. (Circular No. 71, Forest Service.)
- Western Yellow Pine, *Pinus ponderosa*. (Forest Planting Leaflet.) Pp. 2. (Circular No. 72, Forest Service.)
- Red Cedar, *Juniperus virginiana*. (Forest Planting Leaflet.) Pp. 4. (Circular No. 73, Forest Service.)
- Honey Locust, *Gleditsia triacanthos*. (Forest Planting Leaflet.) Pp. 3. (Circular No. 74, Forest Service.)
- Hackberry, *Celtis occidentalis*. (Forest Planting Leaflet.) Pp. 3. (Circular No. 75, Forest Service.)
- Cottonwood, *Populus deltoides*. (Forest Planting Leaflet.) Pp. 4. (Circular No. 77, Forest Service.)
- Monthly List of Publications. December, 1906. Pp. 4. (Doc. No. 555, Division of Publications.)
- Public Roads of Colorado: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records Office of Public Roads. Pp. 3. (Circular No. 65, Office of Public Roads.)
- Crop Reporter, Vol. 9, No. 1, January, 1907. Published by the U. S. Department of Agriculture under the supervision of the Statistician. Pp. 1-8. [Vol. 8 has only 8 numbers.]
- A three-column quarto publication devoted to agricultural statistics.

CIRCULARS—REPRINTS.

- Circular No. 21, Office of the Secretary. Rules and Regulations for the Enforcement of the Food and Drugs Act.
- Order No. 139, Bureau of Animal Industry. Regulations Governing the Inspection, Humane Handling, and Safe Transport of Animals Carried by Ocean Steamers from the United States to Foreign Countries.
- Circular No. 1, Second Series, Division of Entomology. Condensed Information concerning Some of the More Important Insecticides.
- Circular No. 12, Second Series (revised edition), Division of Entomology. The Hessian Fly.
- Circular No. 15, Second Series, Division of Entomology. General Work against Insects which Defoliate Shade Trees in Cities and Towns.
- Circular No. 30, Second Series, Division of Entomology. The Periodical Cicada in 1898.
- Circular No. 33, Second Series, Division of Entomology. Remedial Work against the Mexican Cotton-boll Weevil.
- Circular No. 23, Third Revision, Forest Service. Suggestions to Prospective Forest Students.
- Circular No. 49, Forest Service. Timber Used in the Mines of the United States in 1905.

FARMERS' BULLETINS—NEW.

Forage-crop Practices in Western Oregon and Western Washington. By Byron Hunter, Assistant Agriculturist, Farm Management Investigations, Bureau of Plant Industry. Pp. 40, figs. 4. (Farmers' Bulletin No. 271.)

This bulletin is a reprint of Bulletin No. 94 of the Bureau of Plant Industry, and contains information and suggestions concerning hay making and the growing of forage crops west of the Cascade Mountains in the States of Oregon and Washington. It also describes the climate and the condition of the farming lands of that region.

The Gipsy Moth and How to Control It. By L. O. Howard, Entomologist. Pp. 24, figs. 7. (Farmers' Bulletin No. 275.)

Life history and description of the Gipsy Moth (*Porthetria dispar* L.), the territory infested in the United States, its natural enemies, remedies, etc., with statements as to the measures taken by the State of Massachusetts and the Federal Government for its control.

FARMERS' BULLETINS—REPRINTS.

- No. 48.—The Manuring of Cotton. Pp. 16.
- No. 73.—Experiment Station Work, IV. Pp. 32, figs. 3.
- No. 109.—Farmers' Reading Courses. Pp. 20.
- No. 112.—Bread and the Principles of Bread Making. Pp. 40, figs. 7.
- No. 129.—Sweet Potatoes. Pp. 40.
- No. 133.—Experiment Station Work, XVIII. Pp. 32, figs. 14.
- No. 145.—Carbon Bisulphid as an Insecticide. Pp. 30.
- No. 150.—Clearing New Land. Pp. 24, figs. 7.
- No. 156.—The Home Vineyard. Pp. 24, figs. 15.
- No. 170.—Principles of Horse Feeding. Pp. 46.
- No. 183.—Meat on the Farm: Butchering, Curing, and Keeping. Pp. 38, figs. 35.
- No. 184.—Marketing Live Stock. Pp. 40.
- No. 185.—Beautifying the Home Grounds. Pp. 24, figs. 8.
- No. 188.—Weeds Used in Medicine. Pp. 46, figs. 31.
- No. 200.—Turkeys. Pp. 40, figs. 12.
- No. 204.—The Cultivation of Mushrooms. Pp. 24, figs. 10.
- No. 220.—Tomatoes. Pp. 32, figs. 13.
- No. 228.—Forest Planting and Farm Management. Pp. 23, figs. 3.
- No. 231.—Spraying for Cucumber and Melon Diseases. Pp. 24, figs. 8.
- No. 232.—Okra: Its Culture and Uses. Pp. 16, figs. 8.
- No. 233.—Experiment Station Work, XXXI. Pp. 32, figs. 5.
- No. 235.—Cement Mortar and Concrete. Pp. 32, figs. 14.
- No. 242.—An Example of Model Farming. Pp. 16, figs. 5.
- No. 245.—Renovation of Worn-out Soils. Pp. 16.
- No. 249.—Cereal Breakfast Foods. Pp. 38.
- No. 253.—The Germination of Seed Corn. Pp. 16, figs. 4.
- No. 254.—Cucumbers. Pp. 32, figs. 14.
- No. 255.—The Home Vegetable Garden. Pp. 48, figs. 34.
- No. 259.—Experiment Station Work, XXXV. Pp. 32, figs. 3.
- No. 268.—Industrial Alcohol: Sources and Manufacture. Pp. 48, figs. 10.
- No. 269.—Industrial Alcohol: Uses and Statistics. Pp. 32, figs. 10.

SEPARATES, YEARBOOKS, DEPARTMENT OF AGRICULTURE.

- Pollination of Pomaceous Fruits. By M. B. Waite, Assistant Pathologist, Division of Vegetable Physiology and Pathology. Pp. ii, 167-180, figs. 13. (Sep. No. 157, Yearbook, 1898.)
- The United States Department of Agriculture and Silk Culture. By L. O. Howard, Entomologist. Pp. iii, 137-148, pls. 5. (Sep. No. 313, Yearbook, 1903.)
- The Relation of Irrigation to Dry Farming. By Elwood Mead, Chief of Irrigation and Drainage Investigations. Pp. iv, 423-438, pls. 2, figs. 10. (Sep. No. 393, Yearbook, 1905.)

SEPARATES, BULLETIN NO. 158, OFFICE OF EXPERIMENT STATIONS.

- Irrigation in Santa Clara Valley, California. By S. Fortier, Irrigation Engineer in Charge of Pacific District. Mechanical Tests of Pumping Plants Used for Irrigation. By J. N. Le Conte, Expert in Pumping. Pp. iv, 77-91, 195-255, figs. 33. (Sep. No. 2.)
- The Distribution and Use of Water in Modesto and Turlock Irrigation Districts, California. By Frank Adams, Irrigation Engineer. Relation of Irrigation to Yield, Size, Quality, and Commercial Suitability of Fruits. By E. J. Wickson, Professor of Agricultural Practice in the University of California. Irrigation Conditions in Imperial Valley, California. By J. E. Roadhouse, Agent and Expert in California Investigations. Pp. iv, 93-194, pls. 4, figs. 5. (Sep. No. 3.)

PUBLICATIONS OF THE WEATHER BUREAU.

[For publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps will not be accepted.]

Monthly Weather Review. Vol. XXXIV, No. 9, September, 1906. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 405-452, figs. 9, charts, 7. (W. B. No. 362.) Price 20 cents; \$2.50 per year.

Monthly Weather Review. Vol. XXXIV, No. 10, October, 1906. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 453-504, figs. 7, charts, 7. (W. B. No. 363.) Price 20 cents; \$2.50 per year.

Charts of the Weather Bureau—

Snow and Ice Bulletin for Wednesday, January 2, and for Tuesdays, January 8, 15, 22, and 29. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATION NOT AVAILABLE FOR DISTRIBUTION.

Experiment Station Work, Vol. II, No. 18. Compiled from the Publications of the Agricultural Experiment Stations. Pp. iv, 477-504, figs. 4. (Office of Experiment Stations.)

GEO. WM. HILL,
Editor and Chief.

Approved:

JAMES WILSON, *Secretary of Agriculture.*

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This circular will be sent regularly to all who apply for it.

No. 562.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *February 28, 1907.*

MONTHLY LIST OF PUBLICATIONS.

[FEBRUARY, 1907.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed, except for Weather Bureau publications, for which payment may be made to the Chief of that Bureau. Stamps and personal checks will not be accepted.

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ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1905.

Soil Survey of Lee County, Texas. By James L. Burgess and W. S. Lyman. Pp. 25, fig. 1, map.

Soil Survey of the Cleveland Area, Ohio. By J. E. Lapham and Charles N. Mooney. Pp. 24, fig. 1, map.

Soil Survey of Houston County, Texas. By William T. Carter, jr., and A. E. Kocher. Pp. 33, fig. 1, map.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1906.

Soil Survey of New Hanover County, North Carolina. By J. A. Drake and H. L. Belden. Pp. 39, fig. 1, map.

REPORT—REPRINT.

Report of the Chief of the Bureau of Soils for 1906.

BULLETINS—NEW.

Notes on the Biology of Certain Weevils Related to the Cotton Boll Weevil. By W. Dwight Pierce, Special Field Agent. Pp. ii, 39–44, pl. 1. (Bulletin No. 63, Part 2, Bureau of Entomology.) Price 5 cents.

A Predatory Bug Reported as an Enemy of the Cotton Boll Weevil. By A. C. Morgan, Special Field Agent. Pp. iii, 49–54, figs. 2. (Bulletin No. 63, Part 4, Bureau of Entomology.) Price 5 cents.

Notes on the Pepper Weevil. By F. C. Pratt, Assistant. Pp. iii, 55–58, pl. 1, fig. 1. (Bulletin No. 63, Part 5, Bureau of Entomology.) Price 5 cents.

The Cotton Stalk-borer. By A. C. Morgan, Special Field Agent. Pp. iii, 63-66, pl. 1. (Bulletin No. 63, Part 7, Bureau of Entomology.) Price 5 cents.

Experiment Station Record, Vol. XVIII, No. 5, January, 1907. E. W. Allen, Ph. D., Editor. Pp. viii, 401-500. (No single copies of Vol. XVIII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has fixed the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

El Cultivo de Legumbres en Puerto Rico. Por H. C. Henricksen, horticulturista, Estación de Experimentos Agrícolas de Puerto Rico. Pp. 64, fig. 2, lam. 10. (Boletín No. 7, Estación de Experimentos Agrícolas de Puerto Rico.) Precio 15 cents.

Studies on the Movement of Soil Moisture. By Edgar Buckingham. Pp. 61, figs. 23. (Bulletin No. 38, Bureau of Soils.) Price 10 cents.

Effects of Shading on Soil Conditions. By J. B. Stewart. Pp. 19, figs. 7, pls. 4. (Bulletin No. 39, Bureau of Soils.) Price 10 cents.

Cost of Hauling Crops from Farms to Shipping Points. By Frank Andrews, Expert in Transportation, Division of Foreign Markets. Pp. 63. (Bulletin No. 49, Bureau of Statistics.) Price 10 cents.

BULLETINS—REPRINTS.

Bulletin No. 27, Revised, Bureau of Animal Industry. Information concerning the Angora Goat. Price 15 cents.

Bulletin No. 130, Office of Experiment Stations. Egyptian Irrigation: A Study of Irrigation Methods and Administration in Egypt. Price 30 cents.

Bulletin No. 43, Revised Edition, Forest Service. A Working Plan for Forest Lands in Hampton and Beaufort Counties, South Carolina. Price 15 cents.

Bulletin No. 69, Forest Service. Sugar Pine and Western Yellow Pine in California. Price 10 cents.

Bulletin No. 32, Bureau of Soils. The Absorption of Phosphates and Potassium by Soils. Price 10 cents.

CIRCULARS—NEW.

Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1906. Pp. 14. (Circular No. 32, Bureau of Chemistry.)

Hydrocyanic-acid Gas against Household Insects. By L. O. Howard, Chief, Bureau of Entomology. Pp. 7. (Circular No. 46, Second Series, Revised Edition, Bureau of Entomology.)

The Locust Borer and Methods for Its Control. By A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. 8, figs. 4. (Circular No. 83, Bureau of Entomology.)

Country Life Education. Pp. 13. (Circular No. 73, Office of Experiment Stations.)

Institutions in the United States giving Instructions in Agriculture. Pp. 5. (Doc. 968, Office of Experiment Stations.)

List of Station Publications Received by the Office of Experiment Stations during January, 1907. (Doc. 971, Office of Experiment Stations.)

Practical Assistance to Tree Planters. By Gifford Pinchot, Forester. Pp. 4. (Circular No. 22 (Fifth Revision), Forest Service.)

How to Transplant Forest Trees. (Forest Planting Leaflet.) Pp. 4. (Circular No. 61, Forest Service.)

Woods Used for Packing Boxes in New England. By J. P. Wentling, Forest Assistant. Pp. 4. (Circular No. 78, Forest Service.)

Publications for Free Distribution. (Revised to January 15, 1907.) Pp. 52. (Circular No. 2, Division of Publications.)

Farmers' Bulletin Subject Index. (Revised to include Bulletin No. 273.) Pp. 15. (Circular No. 4, Division of Publications.)

Monthly List of Publications, January, 1907. Pp. 4. (Doc. 559, Division of Publications.)

Public Roads of Indiana: Mileage and Expenditures in 1904. Pp. 4. (Circular No. 66, Office of Public Roads.)

Public Roads of Oklahoma: Mileage and Expenditures in 1904. Pp. 3. (Circular No. 67, Office of Public Roads.)

Public Roads of Utah: Mileage and Expenditures in 1904. Pp. 3. (Circular No. 68, Office of Public Roads.)

Public Roads of California: Mileage and Expenditures in 1904. Pp. 3. (Circular No. 69, Office of Public Roads.)

Public Roads of New Jersey: Mileage and Expenditures in 1904. Pp. 3. (Circular No. 71, Office of Public Roads.)

Crop Reporter, Vol. 9, No. 2, February, 1907. Published by the U. S. Department of Agriculture, under the supervision of the Statistician. Pp. 9-16.

A three-column quarto publication devoted to agricultural statistics.

CIRCULARS—REPRINTS.

Circular No. 82, Bureau of Animal Industry. Hints to Poultry Raisers.

Circular No. 98, Bureau of Animal Industry. Some Unusual Host Relations of the Texas Fever Tick.

Circular No. 101, Bureau of Animal Industry. The New Meat-inspection Law and its Bearing upon the Production and Handling of Meats.

Circular No. 12, Revised, Bureau of Chemistry. Methods for the Investigation of Canceling Inks and other Stamping Inks.

Circular No. 25, Bureau of Chemistry. Coloring Matters for Foodstuffs and Methods for their Detection.

Circular No. 3, Second Series, Division of Entomology. An Important Enemy to Fruit Trees.

Circular No. 18, neue Folge. (Revision des Circulars No. 14.) Abtheilung für Insektenkunde. Der Mexikanische Baumwollkapsel-Rüsselkäfer (*Anthonomus grandis*).

Circular No. 40, Second Series, Division of Entomology. How to Distinguish the Different Mosquitoes of North America.

Circular No. 47, Revised Edition, Bureau of Entomology. The Bedbug.

Circular No. 80, Bureau of Entomology. The Melon Aphis.

Circular No. 34, Revised, Office of Experiment Stations. Rules and Apparatus for Seed Testing. (Corrected to November 7, 1906.)

Circular No. 69, Office of Experiment Stations. A Four-years' College Course in Agriculture.

Circular No. 42, Forest Service. Consumption of Tanbark in 1905.

Circular No. 43, Forest Service. Cross-ties Purchased by the Steam Railroads of the United States in 1905.

Circular No. 45, Forest Service. Forest Planting in Eastern Nebraska.

Circular No. 46, Forest Service. Holding Force of Railroad Spikes in Wooden Ties.

Circular No. 47, Forest Service. Strength of Packing Boxes of Various Woods.

Circular No. 48, Forest Service. Kiln-drying Hardwood Lumber.

Circular No. 50, Forest Service. Wood Used for Distillation in 1905.

Circular No. 51, Forest Service. Wood Used for Veneer in 1905.

Circular No. 41, Office of Public Roads. Public Roads of Arkansas; Mileage and Expenditures in 1904.

FARMER'S BULLETIN—NEW.

The Use of Alcohol and Gasoline in Farm Engines. By Charles Edward Lucke, Assistant Professor of Mechanical Engineering, Columbia University, and S. M. Woodward, Irrigation Engineer, Office of Experiment Stations. Pp. 40, figs. 12. (Farmers' Bulletin No. 277.)

This Bulletin deals with the cost and thermal efficiency of different fuels; the need of power for pumping purposes in irrigated districts; the use of gasoline engines on irrigated farms, and their adaptability to the use of alcohol, with a report of practical experience with alcohol engines in Germany.

FARMERS' BULLETINS—REPRINTS.

- No. 44. Commercial Fertilizers. Pp. 39.
- No. 49. Sheep Feeding. Pp. 24.
- No. 55. The Dairy Herd. Pp. 31.
- No. 56. Experiment Station Work, I. Pp. 32, figs. 10.
- No. 91. Potato Diseases and Their Treatment. Pp. 16, figs. 4.
- No. 97. Experiment Station Work, X. Pp. 32, figs. 5.
- No. 161. Practical Suggestions for Fruit Growers. Pp. 30, figs. 8.
- No. 240. Inoculation of Legumes. Pp. 8.
- No. 241. Butter Making on the Farm. Pp. 32.
- No. 244. Experiment Station Work, XXXIII. Pp. 32, figs. 6.
- No. 251. Experiment Station Work, XXXIV. Pp. 32, fig. 1.

SEPARATES, YEARBOOKS, DEPARTMENT OF AGRICULTURE.

Fertilizers for Special Crops. By A. F. Woods and R. E. B. McKenney, of the Bureau of Plant Industry. Pp. iii, 553-572. (Sep. 290, Yearbook, 1902.)

Dark Fire-cured Tobacco of Virginia and the Possibilities for its Improvement. By George T. McNess and E. H. Mathewson Tobacco Experts, Bureau of Soils. Pp. iii, 219-230, fig. 1, pls. 4. (Sep. 378, Yearbook, 1905.)

Table Sirups. By H. W. Wiley, Chief of the Bureau of Chemistry. Pp. iii, 241-248, pls. 2. (Sep. 380, Yearbook, 1905.)

Formaldehyde: Its Composition and Uses. By Bernard H. Smith, of the Bureau of Chemistry. Pp. ii, 477-482. (Sep. 397, Yearbook, 1905.)

Waste in Logging Southern Yellow Pine. By J. Girvin Peters, Forest Assistant, Forest Service. Pp. iii, 483-494. (Sep. 398, Yearbook, 1905.)

PUBLICATIONS OF THE WEATHER BUREAU.

(For publications of the Weather Bureau, requests and remittances should be directed to the Chief of that Bureau. Postage stamps will not be accepted.)

Monthly Weather Review. Vol. XXXIV, No. 11. November, 1906. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 505-555, figs. 15, charts 14 (W. B. No. 365). Price 20 cents; \$2.50 per year.

Charts of the Weather Bureau—

Snow and Ice Bulletin for Tuesdays, February 5, 12, 19, and 26. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from select cooperative observers.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

GEO. WM. HILL,
Editor in Chief.

Approved:
JAMES WILSON, *Secretary of Agriculture.*

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P96M

This circular will be sent regularly to all who apply for it.

No. 567.

United States Department of Agriculture,
DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *March 30, 1907.*

MONTHLY LIST OF PUBLICATIONS.

[MARCH, 1907.]

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ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1905.

Soil Survey of the Stockton Area, California. By Macy H. Lapham and W. W. Mackie. Pp. 39, pls. 2, fig. 1, map.

Soil Survey of the Grand Junction Area, Colorado. By J. Garnett Holmes and Thomas D. Rice. Pp. 30, fig. 1, maps 2.

Soil Survey of Scotland County, Missouri. By W. Edward Hearn and Charles J. Mann. Pp. 18, fig. 1, map.

Soil Survey of Crawford County, Missouri. By W. Edward Hearn and C. J. Mann. Pp. 18, fig. 1, map.

Soil Survey of Tompkins County, New York. By Jay A. Bonsteel, Elmer O. Fippin, and William T. Carter, jr. Pp. 36, fig. 1, map.

Soil Survey of Cherokee County, South Carolina. By J. A. Drake and H. L. Belden. Pp. 21, fig. 1, map.

Soil Survey of the Everett Area, Washington. By E. P. Carr and A. W. Mangum. Pp. 31, fig. 1, map.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1906.

Soil Survey of Lee County, Alabama. By W. Edward Hearn and W. J. Geib. Pp. 26, fig. 1, map.

REPORT—NEW.

Report of the Chemist, for 1906. By H. W. Wiley. Pp. 29. (From Annual Reports, Department of Agriculture.)

REPORT—REPRINT.

Report of the Chief of the Bureau of Plant Industry for 1906.

BULLETINS—NEW.

Investigations in the Use of the Bomb Calorimeter. By J. August Fries, Assistant Expert in Animal Nutrition. Pp. 39. (Bulletin No. 94, Bureau of Animal Industry.) Price 10 cents.

- The Bacteriolytic Power of the Blood Serum of Hogs. By B. M. Bolton, Bacteriologist, Biochemic Division, Bureau of Animal Industry. Pp. 62, figs. 4. (Bulletin No. 95, Bureau of Animal Industry.) Price 10 cents.
- Proceedings of a Conference of Federal and State Representatives to Consider Plans for the Eradication of the Cattle Tick, Held at Nashville, Tenn., December 5 and 6, 1906. Pp. 98. (Bulletin No. 97, Bureau of Animal Industry.) Price 15 cents.
- The Lime-sulphur-salt Wash and Its Substitutes. By J. K. Haywood, Chief of Miscellaneous Laboratory, in Collaboration with the Bureau of Entomology. Pp. 29. (Bulletin No. 101, Bureau of Chemistry.) Price 5 cents.
- Some Insects Injurious to Forests. Additional Data on the Locust Borer. By A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. iii, 31-40. (Bulletin No. 58, Part 3, Bureau of Entomology.) Price 5 cents.
- Papers on the Cotton Boll Weevil and Related and Associated Insects. An Ant Enemy of the Cotton Boll Weevil. By W. E. Hinds, in Charge of Cotton Boll Weevil Laboratory. Pp. iii, 45-48, fig. 1. (Bulletin No. 63, Part 3, Bureau of Entomology.) Price 5 cents.
- Some Insects Injurious to Truck Crops. The Asparagus Miner. Notes on the Asparagus Beetles. By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. Pp. iii, 1-10, figs. 2. (Bulletin No. 66, Part 1, Bureau of Entomology.) Price 5 cents.
- Small Reservoirs in Wyoming, Montana, and South Dakota. By F. C. Herrmann, Irrigation Engineer, Irrigation and Drainage Investigations, Office of Experiment Stations. Pp. 100, pls. 8, figs. 13. (Bulletin No. 179, Office of Experiment Stations.) Price 20 cents.
- List of Publications of the Agricultural Experiment Stations in the United States. (To June 30, 1906.) Pp. 104. (Bulletin No. 180, Office of Experiment Stations.) Price 15 cents.
- Experiment Station Record, Vol. XVIII, No. 6, February, 1907. E. W. Allen, Ph.D., Editor. Pp. viii, 501-600.
- Experiment Station Record, Vol. XVIII, No. 7, March, 1907. E. W. Allen, Ph. D., Editor. Pp. viii, 601-700. (No single copies of Vol. XVIII sold.)
- The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.
- NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.
- Forest Products of the United States, 1905. By R. S. Kellogg, Forest Inspector, and H. M. Hale, Forest Assistant. Pp. 69, figs. 3. (Bulletin No. 74, Forest Service.) Price 15 cents.
- Accessions to the Department Library, October-December, 1906. Pp. 56. (Bulletin No. 62, Library.) Price 10 cents.
- Tobacco Breeding. By A. D. Shamel and W. W. Cobey, in Charge of Tobacco Breeding Experiments, Plant Breeding Investigations. Pp. 71, pls. 10, figs. 14. (Bulletin No. 96, Bureau of Plant Industry.) Price 15 cents.
- Seeds and Plants Imported during the Period from December, 1903, to December, 1905. Inventory No. 11; Nos. 9897 to 16796. Pp. 255. (Bulletin No. 97, Bureau of Plant Industry.) Price 30 cents.
- Planning a Cropping System. By W. J. Spillman, Agriculturist in Charge of Farm Management Investigations. Pp. 11, figs. 2. (Bulletin No. 102, Part 3, Bureau of Plant Industry.) Price 5 cents.
- The Application of Vegetative Propagation to Leguminous Forage Plants. By J. M. Westgate, Assistant Agrostologist in Charge of Alfalfa and Clover Introduction, Forage Crop Investigations, and George W. Oliver, Plant Propagator, Seed and Plant Introduction Investigations. Pp. 7, pls. 3. (Bulletin No. 102, Part 4, Bureau of Plant Industry.) Price 5 cents.
- Historical Sketch of the U. S. Department of Agriculture; Its Objects and Present Organization. Compiled by Charles H. Greathouse, Division of Publications. Pp. 97, pls. 2, figs. 9. (Bulletin No. 3, Second Revision, Division of Publications.) Price 15 cents.

The Control of Texas Root-rot of Cotton. By C. L. Shear, Pathologist, and George F. Miles, Scientific Assistant in Pathology. Pp. 8, fig. 1. (Bulletin No. 102, Part 5, Bureau of Plant Industry.) Price 5 cents.

BULLETINS—REPRINTS.

Bulletin No. 10, Division of Forestry. Timber: An Elementary Discussion of the Characteristics and Properties of Wood. Price 10 cents.

Bulletin No. 56, Bureau of Forestry. A Working Plan for Forest Lands in Berkeley County, South Carolina. Price 10 cents.

CIRCULARS—NEW.

Report on Statements of Dr. Cyril G. Hopkins Relative to Bureau of Soils. Pp. 12. (Circular No. 22, Office of the Secretary.)

Stomach Worms (*Hæmonchus contortus*) in Sheep. By B. H. Ransom, Chief of the Division of Zoology. Pp. 7. (Circular No. 102, Bureau of Animal Industry.)

Publications of Interest to Dairymen. Pp. 3. (No number, Bureau of Animal Industry.)

Directions for the Destruction of Wolves and Coyotes. By Vernon Bailey, in Charge of Geographic Distribution. Pp. 6. (Circular No. 55, Bureau of Biological Survey.)

Records of Dairy Cows: Their Value and Importance in Economic Milk Production. By Clarence B. Lane, Assistant Chief of Dairy Division, Bureau of Animal Industry. Pp. 38, figs. 10. (Circular No. 103, Bureau of Animal Industry.)

Report on Methods of Beer Analysis. By H. E. Barnard, Chemist, Indiana State Board of Health. Pp. 16. (Circular No. 33, Bureau of Chemistry.)

The Aphides Affecting the Apple. By A. L. Quaintance, in Charge of Deciduous-Fruit Insect Investigations. Pp. 10, figs. 8. (Circular No. 81, Bureau of Entomology.)

The Spring Grain-aphis. (*Toxoptera graminum* Rond.) By F. M. Webster, in Charge of Cereal and Forage-plant Insect Investigations. Pp. 7, figs. 3. (Circular No. 85, Bureau of Entomology.)

List of Station Publications Received by the Office of Experiment Stations during February, 1907. Pp. 5. (Doc. 977, Office of Experiment Stations.)

Problems of Animal Nutrition. By Henry Prentiss Armsby, Director Pennsylvania Experiment Station. Pp. 508-521. (Sep. Experiment Station Record, Vol. XVIII, No. 6.) (Doc. 978, Office of Experiment Stations.)

Silver Maple (*Acer saccharinum*). (Forest Planting Leaflet.) Pp. 3. (Circular No. 76, Forest Service.)

The Fractional Distillation of Coal-tar Creosote. By Arthur L. Dean and Ernest Bateman, Experts, Forest Service. Pp. 31, figs. 17. (Circular No. 80, Forest Service.)

Monthly List of Publications, February, 1907. Pp. 4. (Doc. 562, Division of Publications.)

Public Roads of Illinois: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 4. (Circular No. 70, Office of Public Roads.)

Public Roads of Missouri: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 4. (Circular No. 72, Office of Public Roads.)

Public Roads of Louisiana: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 3. (Circular No. 73, Office of Public Roads.)

Public Roads of Ohio: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 4. (Circular No. 75, Office of Public Roads.)

Public Roads of Georgia: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 4. (Circular No. 76, Office of Public Roads.)

Public Roads of Mississippi: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 4. (Circular No. 77, Office of Public Roads.)

Crop Reporter, Vol. 9, No. 3, March, 1907. Published by the U. S. Department of Agriculture, under the supervision of the Statistician. Pp. 17-24.

A three-column quarto publication devoted to agricultural statistics.

Crop Reporter Index, Vols. 1 to 4. Pp. 17.

CIRCULARS—REPRINTS.

Circular No. 67, Bureau of Animal Industry. Abortion, or Slinking the Calf.

Circular No. 101, Bureau of Animal Industry. The New Meat-inspection Law and Its Bearing upon the Production and Handling of Meats.

Circular No. 28, Bureau of Chemistry. Provisional Methods for the Determination of Food Preservatives as Authorized by the Association of Official Agricultural Chemists, 1905.

Circular No. 29, Bureau of Chemistry. Changes in Provisional Methods for the Analysis of Foods and Additions Thereto, from 1902 to 1905.

Circular No. 31, Bureau of Chemistry. General Results of the Investigations Showing the Effect of Salicylic Acid and Salicylates upon Digestion and Health.

Circular No. 14, Second Series (Revision of No. 6), Division of Entomology. The Mexican Cotton-boll Weevil.

Circular No. 15, Second Series, Division of Entomology. General Work against insects which Defoliate Shade Trees in Cities and Towns.

Circular No. 42, Second Series, Fourth Edition, Bureau of Entomology. How to Control the San Jose Scale.

Circular No. 71, Revised Edition, Bureau of Entomology. House Flies.

Circular No. 60, Office of Experiment Stations. The Teaching of Agriculture in the Rural Common Schools.

Circular No. 52, Forest Service. The Lumber Cut of the United States in 1905.

Circular No. 62, Forest Service. Shagbark Hickory.

Circular No. 63, Forest Service. Basswood.

Circular No. 72, Forest Service. Western Yellow Pine.

FARMERS' BULLETINS—NEW.

Flax culture. Extracted from a Report of H. L. Bolley, Botanist of the North Dakota Agricultural Experiment Station and Collaborator of the Bureau of Plant Industry. By William L. Marcy, Bureau of Plant Industry. Pp. 38, figs. 11. (Farmers' Bulletin No. 274.)

Importance and value of the flax crop in the United States, climatic and soil requirements, seed selection, cultural methods, harvesting the seed, fiber processes, etc., with suggestions and recommendations to flax growers. This Bulletin is designed to supersede Farmers' Bulletin No. 27, entitled "Flax for Seed and Fiber in the United States."

Experiment Station Work. XXXIX. Pp. 32, figs. 2. (Farmers' Bulletin No. 276.)

CONTENTS: Improvements in peach growing—Mulberries—Alfalfa in the eastern States—Oat culture in the South—Improvement of grass land—Succotash as a soiling crop—Tankage and bone meal for hogs—Grinding corn for hogs—Dips as lice killers—Digestibility of fish and poultry—Honey vinegar—The farm wood lot.

FARMERS' BULLETINS—REPRINTS.

No. 22. The Feeding of Farm Animals. Revised. Pp. 40.

No. 28. Weeds; and How to Kill Them. Revised. Pp. 32, figs. 11.

- No. 29. Souring of Milk and Other Changes in Milk Products. Pp. 24.
- No. 32. Silos and Silage. Revised. Pp. 32, figs. 6.
- No. 33. Peach Growing for Market. Pp. 24, figs. 21.
- No. 34. Meats: Composition and Cooking. Pp. 32, figs. 4.
- No. 35. Potato Culture. Pp. 24, figs. 2.
- No. 39. Onion Culture. Pp. 31, figs. 3.
- No. 41. Fowls: Care and Feeding. Pp. 24, figs. 4.
- No. 42. Facts about Milk. Revised. Pp. 32, figs. 8.
- No. 47. Insects Affecting the Cotton Plant. Pp. 32, figs. 18.
- No. 54. Some Common Birds in Their Relation to Agriculture. Revised. Pp. 48, figs. 22.
- No. 61. Asparagus Culture. Pp. 40, figs. 17.
- No. 62. Marketing Farm Produce. Pp. 32, figs. 7.
- No. 64. Ducks and Geese, Standard Varieties and Management. Pp. 56, figs. 32.
- No. 66. Meadows and Pastures. Pp. 31, figs. 9.
- No. 69. Experiment Station Work, III. Pp. 32, figs. 2.
- No. 77. The Liming of Soils. Pp. 24.
- No. 82. The Culture of Tobacco. Pp. 23.
- No. 87. Experiment Station Work, VIII. Pp. 32, figs. 6.
- No. 92. Experiment Station Work, IX. Pp. 31.
- No. 95. Good Roads for Farmers. Pp. 48, figs. 49.
- No. 99. Three Insect Enemies of Shade Trees. Pp. 32, figs. 11.
- No. 100. Hog Raising in the South. Pp. 40.
- No. 101. Millets. Pp. 32, figs. 6.
- No. 104. Notes on Frost. Pp. 24.
- No. 105. Experiment Station Work, XII. Pp. 32, figs. 4.
- No. 111. The Farmer's Interest in Good Seed. Pp. 24, figs. 7.
- No. 116. Irrigation in Fruit Growing. Pp. 48, figs. 8.
- No. 120. The Principal Insects affecting the Tobacco Plant. Pp. 32, figs. 25.
- No. 125. Protection of Food Products from Injurious Temperatures. Pp. 24.
- No. 131. Household Tests for the Detection of Oleomargarine and Renovated Butter. Pp. 12.
- No. 136. Earth Roads. Pp. 24, figs. 20.
- No. 138. Irrigation in Field and Garden. Pp. 40, figs. 18.
- No. 141. Poultry Raising on the Farm. Pp. 16, figs. 31.
- No. 148. Celery Culture. Pp. 32, figs. 7.
- No. 149. Experiment Station Work, XX. Pp. 32, figs. 6.
- No. 154. The Home Fruit Garden: Preparation and Care. Pp. 16, figs. 6.
- No. 158. How to Build Small Irrigation Ditches. Pp. 30, figs. 9.
- No. 173. A Primer of Forestry. Pp. 47, figs. 33.
- No. 174. Broom Corn. Pp. 32, figs. 10.
- No. 177. Squab Raising. Revised. Pp. 32, figs. 11.
- No. 181. Pruning. Pp. 40, figs. 25.
- No. 182. Poultry as Food. Pp. 40.
- No. 187. Drainage of Farm Lands. Pp. 40, figs. 19.
- No. 192. Barnyard Manure. Pp. 32, figs. 4.

- No. 197. Importation of Game Birds and Eggs for Propagation. Pp. 30, fig. 1.
 No. 198. Strawberries. Pp. 24, figs. 15.
 No. 201. The Cream Separator on Western Farms. Pp. 24.
 No. 203. Canning Fruit, Preserves, and Jellies. Pp. 32, figs. 5.
 No. 205. Pig Management. Pp. 40, figs. 22.
 No. 208. Varieties of Fruits Recommended for Planting. Pp. 48, fig. 1.
 No. 209. Controlling the Boll Weevil in Cotton Seed and at Ginneries. Pp. 32, fig. 1.
 No. 215. Alfalfa Growing. Pp. 40, figs. 8.
 No. 216. The Control of the Boll Weevil, including Results of Recent Investigations. Pp. 32, figs. 5.
 No. 225. Experiment Station Work, XXIX. Pp. 32, figs. 6.
 No. 237. Experiment Station Work, XXXII. Pp. 32, figs. 6.
 No. 242. An Example of Model Farming. Pp. 16, figs. 5.
 No. 250. The Prevention of Stinking Smut of Wheat and Loose Smut of Oats. Pp. 16, figs. 7.
 No. 255. The Home Vegetable Garden. Pp. 48, figs. 34.
 No. 256. Preparation of Vegetables for the Table. Pp. 48.
 No. 257. Soil Fertility. Pp. 39, figs. 2.
 No. 263. Practical Information for Beginners in Irrigation. Pp. 40, figs. 25.
 No. 268. Industrial Alcohol: Sources and Manufacture. Pp. 47, figs. 10.
 No. 270. Modern Conveniences for the Farm Home. Pp. 48, figs. 26.

SEPARATES, YEARBOOKS, DEPARTMENT OF AGRICULTURE.

- The Selection of Materials for Macadam Roads. By Logan Waller Page, Expert in Charge of Road Material Laboratory, Division of Chemistry. Pp. iii, 349-356. (Sep. 204, Yearbook, 1900.)
 Practical Road Building in Madison County, Tennessee. By Sam C. Lancaster, Chief Engineer, Madison County Good Roads Commission. Pp. ii, 323-340, pls. 5, figs. 5. (Sep. 350, Yearbook, 1904.)

PUBLICATIONS OF THE WEATHER BUREAU.

- Monthly Weather Review. Vol. XXXIV, No. 12. December, 1906. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 557-607, figs. 10, charts 8. (W. B. No. 366.) Price, 20 cents; \$2.50 per year.

Charts of the Weather Bureau—

Snow and Ice Bulletin for Tuesdays, March 5, 12, 19, and 26. (These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau Stations, supplemented by reports from selected cooperative observers.)

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE FOR DISTRIBUTION.

- Experiment Station Record, Vol. 2, No. 4, 1890.
 Experiment Station Record, Vol. 5, No. 1, 1893.
 Experiment Station Record, Vol. 5, No. 2, 1893.
 Experiment Station Record, Vol. 5, No. 3, 1893.
 Experiment Station Record, Vol. 5, No. 4, 1894.
 Experiment Station Record, Vol. 18, No. 2, 1906.
 Experiment Station Work. Vol. 2, No. 19. Pp. IV, 505-532, figs. 2.

GEO. WM. HILL,
Editor in Chief.

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ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1905.

Soil Survey of the Yorktown Area, Virginia. By R. T. Avon Burke and Aldert S. Root. Pp. 28, fig. 1, map.

Soil Survey of Madison County, Kentucky. By A. M. Griffen and Orla L. Ayrs. Pp. 24, fig. 1, map.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1906.

Soil Survey of the Waycross Area, Georgia. By M. Earl Carr and W. E. Tharp. Pp. 35, fig. 1, map.

Soil Survey of the San Marcos Area, Texas. By A. W. Mangum and W. S. Lyman. Pp. 37, fig. 1, map.

REPORTS—NEW.

Twenty-second Annual Report of the Bureau of Animal Industry for the Year 1905. By A. D. Melvin, Chief of Bureau. Pp. 364, pls. 23, figs. 22. Price 50 cents.

Annual Report of the Porto Rico Agricultural Experiment Station for 1906. By D. W. May, Special Agent in Charge. Under the supervision of Office of Experiment Stations, U. S. Department of Agriculture. Pp. 32, pls. 3.

BULLETINS—NEW.

Some Miscellaneous Results of the Work of the Bureau of Entomology—IX. The Mexican Conchuela in Western Texas in 1905. By A. W. Morrill, Special Field Agent. Pp. ii, 1-14, pl. 1, figs. 2. (Bul. 64, Part 1, Bureau of Entomology.) Price 5 cents.

Some Miscellaneous Results of the Work of the Bureau of Entomology—IX. Notes on the Economic Importance of Sowbugs. By W. Dwight Pierce, Special Field Agent. Pp. iii, 15-22, pl. 1. (Bul. 64, Part 2, Bureau of Entomology.) Price 5 cents.

Some Miscellaneous Results of the Work of the Bureau of Entomology—IX. Notes on "Punkies." By F. C. Pratt, Special Field Agent. Pp. ii, 23-28, figs. 4. (Bul. 64, Part 3, Bureau of Entomology.) Price 5 cents.

The Tobacco Thrips, A New and Destructive Enemy of Shade-grown Tobacco. By W. A. Hooker, Special Field Agent. Pp. 24, pls. 2, figs. 2. (Bul. 65, Bureau of Entomology.) Price 10 cents.

Some Insects Injurious to Truck Crops. The Water-cress Sowbug. The Water-cress Leaf-beetle. By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. Pp. iii, 11-20, figs. 3. (Bul. 66, Part 2, Bureau of Entomology.) Price 5 cents.

Course in Fruit Growing for Movable Schools of Agriculture. By Samuel B. Green, Professor of Horticulture, Minnesota College of Agriculture. Pp. 100. (Bul. 178, Office of Experiment Stations.) Price 15 cents.

Proceedings of the Eleventh Annual Meeting of the American Association of Farmers' Institute Workers held at Baton Rouge, La., Nov. 12-14, 1906. Edited by W. H. Beal for the Office of Experiment Stations and John Hamilton for the Association. Pp. 90. (Bul. 182, Office of Experiment Stations.) Price 15 cents.

Mechanical Tests of Pumps and Pumping Plants Used for Irrigation and Drainage in Louisiana in 1905 and 1906. By W. B. Gregory, Professor of Experimental Engineering, Tulane University of Louisiana. Pp. 72, figs. 4. (Bul. 183, Office of Experiment Stations.) Price 10 cents.

Proceedings of the Twentieth Annual Convention of the Association of American Agricultural Colleges and Experiment Stations held at Baton Rouge, La., Nov. 14-16, 1906. Edited by A. C. True and W. H. Beal for the Office of Experiment Stations and H. C. White for the Executive Committee of the Association. Pp. 132, fig. 1. (Bul. 184, Office of Experiment Stations.) Price 20 cents.

Experiment Station Record, Vol. XVIII, No. 8, April, 1907. E. W. Allen, Ph. D., Editor. Pp. x, 701-800, fig. 1. (No single copies of Vol. XVIII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

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Haymaking at Kenai Experiment Station. By P. H. Ross, Assistant at Kenai Station. Pp. 13, pl. 1. (Bul. 3, Alaska Agricultural Experiment Stations, under supervision of Office of Experiment Stations, U. S. Department of Agriculture.) Price, 5 cents.

Miscellaneous Papers. I. Cranberry Spraying Experiments in 1905. By C. L. Shear, Pathologist. II. The Wrapping of Apple Grafts and Its Relation to the Crown-gall Disease. By Hermann Von Schrenk, Special Agent, and George G. Hedgecock, Assistant. III. Garlicky Wheat. By J. W. T. Duvel, Assistant. IV. Methods of Testing the Burning Quality of Cigar Tobacco. By Wightman W. Garner, Scientific Assistant. V. The Drug Known as Pinkroot. By W. W. Stockberger, Expert. VI. Orchard Grass. By R. A. Oakley, Assistant Agriculturist. VII. The Effect of Copper upon Water Bacteria. By Karl F. Kellerman, Physiologist, and T. D. Beckwith, Scientific Assistant. VIII. Conditions Affecting Legume Inoculation. By Karl F. Kellerman, Physiologist, and T. R. Robinson, Assistant Physiologist. Pp. 83, pls. 9, figs. 6. (Bul. 100, Bureau of Plant Industry.) Price, 25 cents.

Hops in Principal Countries: Their Supply, Foreign Trade, and Consumption, with Statistics of Beer Brewing. By Eugene Merritt, Scientific Assistant, Division of Foreign Markets. Pp. 34, fig. 1. (Bul. 50, Bureau of Statistics.) Price, 10 cents.

CIRCULARS—NEW.

Welsh Black Cattle. By John Roberts, Editorial Office, Bureau of Animal Industry. Pp. 29, pls. 5. (Cir. 104, Bureau of Animal Industry.)

Baby Beef. By Ernest G. Ritzman, Assistant Animal Husbandman, Bureau of Animal Industry. Pp. 34, figs. 6. (Cir. 105, Bureau of Animal Industry.)

Publications of the Bureau of Animal Industry. Pp. 24. (Cir. 106, Bureau of Animal Industry.)

Capons and Caponizing. By Rob R. Slocum, Poultry Assistant, Bureau of Animal Industry. Pp. 10, figs. 7. (Cir. 107, Bureau of Animal Industry.)

Trichinosis; A Danger in the Use of Raw Pork for Food. By B. H. Ransom, Chief, Division of Zoology. Pp. 6, figs. 5. (Cir. 108, Bureau of Animal Industry.)

Directions for the Destruction of Wolves and Coyotes. By Vernon Bailey, In Charge of Geographic Distribution. Pp. 6. (Cir. 55, Bureau of Biological Survey.)

Value of Swallows as Insect Destroyers. By H. W. Henshaw. Pp. 4. (Cir. 56, Bureau of Biological Survey.)

Birds Useful in the War against the Cotton Boll Weevil. By H. W. Henshaw. Pp. 4. (Cir. 57, Bureau of Biological Survey.)

Examination of Papers. By F. P. Veitch, Chief, Leather and Paper Laboratory. Pp. 10. (Cir. 34, Bureau of Chemistry.)

The Grasshopper Problem and Alfalfa Culture. By F. M. Webster, In Charge of Cereal and Forage-Plant Insect Investigations. Pp. 10, figs. 8. (Cir. 84, Bureau of Entomology.)

List of Station Publications Received by the Office of Experiment Stations during March, 1907. Pp. 7. (Doc. 986, Office of Experiment Stations.)

Russian Mulberry (*Morus alba tatarica*). Pp. 3. (Cir. 83, Forest Service.)

White Ash (*Fraxinus americana*). Pp. 4. (Cir. 84, Forest Service.)

Slippery Elm (*Ulmus pubescens*). Pp. 4. (Cir. 85, Forest Service.)

White Willow (*Salix alba*). Pp. 4. (Cir. 87, Forest Service.)

Black Walnut (*Juglans nigra*). Pp. 5. (Cir. 88, Forest Service.)

Tamarack (*Larix laricina*). Pp. 4. (Cir. 89, Forest Service.)

Osage Orange (*Toxylon pomiferum*). Pp. 3. (Cir. 90, Forest Service.)

Coffee tree (*Gymnocladus dioica*). Pp. 4. (Cir. 91, Forest Service.)

Green Ash (*Fraxinus lanceolata*). Pp. 4. (Cir. 92, Forest Service.)

Yellow Poplar (*Liriodendron tulipifera*). Pp. 4. (Cir. 93, Forest Service.)

Black Cherry (*Prunus serotina*). Pp. 3. (Cir. 94, Forest Service.)

Sugar Maple (*Acer saccharum*). Pp. 4. (Cir. 95, Forest Service.)

Arbor Day. Pp. 4. (Cir. 96, Forest Service.)

The Timber Supply of the United States. By R. S. Kellogg, Forest Inspector. Pp. 16, figs. 2. (Cir. 97, Forest Service.)

Organization of Department of Agriculture, 1907. Pp. 37. (Revised to January 1, 1907.) (Cir. 1, Division of Publications.)

Monthly List of Publications, March, 1907. Pp. 6. (Doc. 567, Division of Publications.)

Public Roads of West Virginia: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records. Pp. 3. (Cir. 78, Office of Public Roads.)

Public Roads of Wisconsin: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records. Pp. 3. (Cir. 79, Office of Public Roads.)

Crop Reporter, Vol. 9, No. 4, April, 1907. Pp. 25-32.

CIRCULARS—REPRINTS.

How to Get Rid of Cattle Ticks. (Cir. 97, Bureau of Animal Industry.)

Coloring Matters for Foodstuffs and Methods for Their Detection. (Cir. 25, Bureau of Chemistry.)

Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1906. (Cir. 32, Bureau of Chemistry.)

The Plum Curculio. (Cir. 73, Bureau of Entomology.)

Rules and Apparatus for Seed Testing. (Cir. 34, Revised, Office of Experiment Stations.)

Functions and Uses of Food. (Cir. 46, Revised, Office of Experiment Stations.)

Secondary Courses in Agriculture. (Cir. 49, Office of Experiment Stations.)

Arbor Day. (Cir. 96, Forest Service.)

Public Roads of New York: Mileage and Expenditures in 1904. (Cir. 74, Office of Public Roads.)

FARMERS' BULLETINS—NEW.

- Leguminous Crops for Green Manuring. By C. V. Piper, Agrostologist in Charge of Forage Crop Investigations, Bureau of Plant Industry. Pp. 29, figs. 14. (Farmers' Bulletin 278.)
- A Method of Eradicating Johnson Grass. By J. S. Cates, Scientific Assistant, and W. J. Spillman, Agriculturist in Charge of Farm Management Investigations, Bureau of Plant Industry. Pp. 16, figs. 8. (Farmers' Bulletin 279.)
- A Profitable Tenant Dairy Farm. By Lyman Carrier, Scientific Assistant, Farm Management Investigations, Bureau of Plant Industry. Pp. 16, figs. 3. (Farmers' Bulletin 280.)
- Experiment Station Work, XL. Compiled from the Publications of the Agricultural Experiment Stations. Pp. 32. (Farmers' Bulletin 281.)
- The Advantage of Planting Heavy Cotton Seed. By Herbert J. Webber and E. B. Boykin, Physiologist in Charge and Special Agent, respectively, Plant Breeding Investigations, Bureau of Plant Industry. Pp. 16, figs. 6. (Farmers' Bulletin 285.)
- The Nonsaccharine Sorghums. By C. W. Warburton, Assistant Agriculturist, Farm Management Investigations, Bureau of Plant Industry. Pp. 30, figs. 9. (Farmers' Bulletin 288.)

FARMERS' BULLETINS—REPRINTS.

- 24.—Hog Cholera and Swine Plague, pp. 16; 25.—Peanuts: Culture and Uses, pp. 24, fig. 1; 35.—Potato Culture, pp. 24, figs. 2; 36.—Cotton Seed and Its Products, pp. 16; 44.—Commercial Fertilizers: Composition and Use, Revised, pp. 39; 51.—Standard Varieties of Chickens, Revised, pp. 48, figs. 25; 52.—The Sugar Beet, Revised, pp. 48, figs. 24; 58.—The Soy Bean as a Forage Crop, pp. 24, figs. 5; 59.—Bee Keeping, Revised, pp. 48, figs. 19; 60.—Methods of Curing Tobacco, Revised, pp. 24; 71.—Some Essentials in Beef Production, pp. 24, figs. 17; 80.—The Peach Twig Borer, pp. 16, figs. 5; 81.—Corn Culture in the South, pp. 24; 84.—Experiment Station Work, VII, pp. 32, figs. 8; 85.—Fish as Food, Revised, pp. 32; 95.—Good Roads for Farmers, pp. 48, figs. 49; 96.—Raising Sheep for Mutton, pp. 48, figs. 18; 98.—Suggestions to Southern Farmers, pp. 48; 103.—Experiment Station Work, XI, pp. 32, figs. 5; 106.—Breeds of Dairy Cattle, pp. 48, figs. 21; 113.—The Apple and How to Grow It, Revised, pp. 32, figs. 10; 119.—Experiment Station Work, XV, pp. 32, figs. 5; 124.—Experiment Station Work, XVII, pp. 32, figs. 6; 126.—Practical Suggestions for Farm Buildings, pp. 48, figs. 28; 127.—Important Insecticides, Revised, pp. 46, figs. 6; 132.—The Principal Insect Enemies of Growing Wheat, pp. 40, figs. 25; 134.—Tree Planting in Rural School Grounds, pp. 32, figs. 17; 142.—Principles of Nutrition and Nutritive Value of Food, pp. 48, figs. 2; 143.—Conformation of Beef and Dairy Cattle, pp. 46, figs. 44; 144.—Experiment Station Work, XIX, pp. 32, figs. 9; 145.—Carbon Bisulphid as an Insecticide, pp. 30; 146.—Insecticides and Fungicides, pp. 16; 147.—Winter Forage Crops for the South, pp. 40, figs. 24; 151.—Dairying in the South, pp. 48, figs. 4; 152.—Scabies of Cattle, Revised, pp. 32, figs. 17; 153.—Orchard Enemies in the Pacific Northwest, pp. 40, fig. 1; 155.—How Insects Affect Health in Rural Districts, pp. 21, figs. 16; 156.—The Home Vineyard, pp. 24, figs. 15; 159.—Scab in Sheep, pp. 47, figs. 17; 164.—Rape as a Forage Crop, pp. 16, fig. 1; 166.—Cheese Making on the Farm, pp. 16, figs. 3; 175.—Home Manufacture and Use of Unfermented Grape Juice, pp. 16, figs. 8; 179.—Horseshoeing, pp. 31, figs. 18; 181.—Pruning, pp. 40, figs. 25; 186.—Experiment Station Work, XXIII, pp. 32, figs. 9; 188.—Weeds Used in Medicine, pp. 46, figs. 31; 195.—Annual Flowering Plants, pp. 48, figs. 55; 196.—Usefulness of the American Toad, pp. 16; 206.—Milk Fever, pp. 16, figs. 2; 210.—Experiment Station Work, XXVII, pp. 32, figs. 7; 217.—Essential Steps in Securing an Early Crop of Cotton, pp. 16; 218.—The School Garden, pp. 40, figs. 33; 219.—Lessons from the Grain-rust Epidemic of 1904, pp. 24, figs. 6; 227.—Experiment Station Work, XXX, pp. 32, figs. 2; 234.—The Guinea Fowl and Its Use as Food, pp. 24, figs. 3; 235.—Cement Mortar and Concrete, pp. 32, figs. 14; 236.—Incubation and Incubators, pp. 32, figs. 11; 237.—Experiment Station Work, XXXII, pp. 32, figs. 6; 241.—Butter Making on the Farm, pp. 32; 245.—Renovation of Worn-out Soils, pp. 16; 248.—The Lawn, pp. 20, figs. 5; 252.—Maple Sugar and Sirup, pp. 38, figs. 9; 253.—The Germination of Seed Corn, pp. 16 figs. 4; 258.—Texas or Tick Fever and Its Prevention, pp. 47, figs. 6; 262.—Experiment Station Work, XXXVI, pp. 32, figs. 2; 266.—Management of Soils to Conserve Moisture, pp. 32, figs. 7; 269.—Industrial Alcohol, Uses and Statistics, pp. 31, figs. 10; 272.—A Successful Hog and Seed-corn Farm, pp. 16 figs. 5.

SEPARATES, YEARBOOK, DEPARTMENT OF AGRICULTURE, 1903.

- Relation of Sugar Beets to General Farming. By C. O. Townsend, Pathologist, Bureau of Plant Industry. Pp. iii, 399-410, pls. 3. (Sep. 320.)
- Some New Facts about the Migration of Birds. By Wells W. Cooke, Assistant, Biological Survey. Pp. iii, 371-386, figs. 2. (Sep. 322.)
- The Relation of Forests to Stream Flow. By James W. Toumey, Collaborator, Bureau of Forestry. Pp. iii, 279-288. (Sep. 329.)

SEPARATES, ANNUAL REPORT, BUREAU OF ANIMAL INDUSTRY, 1905.

- Notes on Cattle Tick and Texas Fever. By E. C. Schroeder, Superintendent of Experiment Station.
- Persistence of Texas Fever Organism in Blood of Southern Cattle. By E. C. Schroeder and W. E. Cotton, Expert Assistant at Experiment Station. Pp. ii, 49-78.
- Soft-cheese Studies in Europe. By Charles Thom, Mycologist in Cheese Investigations. Pp. iv, 79-109, pls. 3.
- Government Encouragement of Imported Breeds of Horses. By George M. Rommel, Animal Husbandman, Bureau of Animal Industry. Pp. i, 147-159.
- Poultry Management. By G. Arthur Bell, Assistant Animal Husbandman, Bureau of Animal Industry. Pp. ii, 213-266, pls. 5, figs. 7.
- The Production and Consumption of Meat, and the Prices, Movement, and Registration of Live Stock in the United States. Pp. ii, 277-297.

SEPARATE, ANNUAL REPORT, OFFICE OF EXPERIMENT STATIONS, 1904.

- County Schools of Agriculture in Wisconsin. By K. C. Davis, Principal of the Dunn County School of Agriculture, Menomonie, Wis. Pp. iv, 677-686, pls. 4. (Doc. 805, Office of Experiment Stations.)

PUBLICATIONS OF THE WEATHER BUREAU.

- Monthly Weather Review, Vol. XXXIV, No. 13. Annual Summary, 1906. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. xvi, 609-628, charts, 11. (W. B. No. 237.) Price 20 cents; \$2.50 per year.

CHARTS OF THE WEATHER BUREAU.

National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. Issued each Monday in April, except April 1; Nos. 4, 5, 6, 7. Nos. 1, 2, 3, monthly, issued January, February, and April 1, respectively.
Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE FOR DISTRIBUTION.

Experiment Station Work, Vol. 2, No. 20. Pp. iii, 533-560.

REPRINTS.

Experiment Station Record, Vol. 5, Nos. 5, 6, 7, 8, 9, 10, 11, 12; Vol. 6, Nos. 1, 2, 4, 6, 8, 11, 12; Vol. 7, Nos. 5, 7, 11, 12; Vol. 8, Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11; Vol. 9, Nos. 2, 3, 5, 8, 9, 10, 11, 12; Vol. 10, Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12; Vol. 11, Nos. 1, 2, 4, 6, 7, 8, 9, 10, 11, 12; Vol. 12, Nos. 1, 3, 4, 5, 6, 8, 9, 10, 11, 12.

GEO. WM. HILL,
Editor in Chief.

Approved:
JAMES WILSON, *Secretary of Agriculture.*

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This circular will be sent regularly to all who apply for it.

No 572.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., May 31, 1907.

MONTHLY LIST OF PUBLICATIONS.

[MAY, 1907.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1905.

Soil Survey of Hanover County, Virginia. By Hugh H. Bennett and W. E. McLendon. Pp. 37, fig. 1, map.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1906.

Soil Survey of Escambia County, Florida. By A. M. Griffen, J. A. Drake, H. L. Belden, and L. A. Kolbe. Pp. 32, fig. 1, map.

REPORTS—NEW.

Annual Reports of the Department of Agriculture for the fiscal year ended June 30, 1906. Pp. 698. (Report of the Secretary. Departmental Reports.)

Progress of the Beet-Sugar Industry in the United States in 1906. Pp. 135. (Report 84, Office of the Secretary.) Price, 15 cents.

BULLETINS—NEW.

Investigations in the Manufacture and Curing of Cheese. VII. Directions for Making the Camembert Type of Cheese. By Theodore W. Issajeff, Expert Cheese Maker, Dairy Division. Pp. 21, figs. 10. (Bulletin 98, Bureau of Animal Industry.) Price, 5 cents.

The Danger from Tubercle Bacilli in the Environment of Tuberculous Cattle. By E. C. Schroeder, Superintendent of Experiment Station, and W. E. Cotton, Expert Assistant at Experiment Station. Pp. 24. (Bulletin 99, Bureau of Animal Industry.) Price, 5 cents.

Miscellaneous Papers. A Contribution to our Knowledge of the Thysanoptera of California. By Dudley Moulton, Engaged in Deciduous-fruit Insect Investigations. Pp. 68, pls. 6. (Bulletin 12, Part 3, Technical Series, Bureau of Entomology.) Price, 5 cents.

Iron in Food and Its Functions in Nutrition. By H. C. Sherman, Professor of Organic Analysis, Columbia University. Pp. 80. (Bulletin 185, Office of Experiment Stations.) Price, 10 cents.

Exercises in Elementary Agriculture. Plant Production. By Dick J. Crosby. Pp. 64, figs. 40. (Bulletin 186, Office of Experiment Stations.) Price, 10 cents.

Experiment Station Record, Vol. XVIII, No. 9, May, 1907. E. W. Allen, Ph. D., Editor. Pp. viii, 801-900. (No single copies of Vol. XVIII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly, the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

Accessions to the Department Library, January-March, 1907. Pp. 64. (Bulletin 63, Library.) Price 10 cents.

Soy Bean Varieties. By Carleton R. Ball, Agronomist, Grain Investigations. Pp. 30, pls. 5, figs. 2. (Bulletin 98, Bureau of Plant Industry.) Price 15 cents.

- Dry Farming in the Great Basin. By Carl S. Scofield, Agriculturist in Charge of Western Agricultural Extension Investigations. Pp. 43, pls. 4, figs. 8. (Bulletin 103, Bureau of Plant Industry.) Price 10 cents.
- The Use of Feldspathic Rocks as Fertilizers. By Allerton S. Cushman, Assistant Director, Office of Public Roads, and Collaborator, Bureau of Plant Industry. Pp. 32. (Bulletin 104, Bureau of Plant Industry.) Price 5 cents.

BULLETINS—REPRINTS.

- Bulletin 93, Bureau of Animal Industry. The Relation of Tuberculous Lesions to the Mode of Infection. Price 5 cents.
- Bulletin 21, Bureau of Biological Survey. The Bobwhite and Other Quails of the United States in Their Economic Relations. Price 5 cents.
- Bulletin 89, Bureau of Plant Industry. Wild Medicinal Plants of the United States. Price 5 cents.

CIRCULARS—NEW.

- Agriculture in Our Industries. Pp. 8. (Circular 23, Office of the Secretary.)
- Quail Disease in the United States. (A preliminary report.) By George Byron Moss, Assistant in Bacteriology and Pathology, Division of Pathology. Pp. 11, figs. 3. (Circular 109, Bureau of Animal Industry.)
- Methods of Eradicating Cattle Ticks. By Louis A. Klein, Expert in Texas Fever, Bureau of Animal Industry. Pp. 16, figs. 3. (Circular 110, Bureau of Animal Industry.)
- Destruction of Deer by the Northern Timber Wolf. By Vernon Bailey, Assistant in Charge of Geographic Distribution. Pp. 2. (Circular 58, Bureau of Biological Survey.)
- Game Protection in Florida. By R. W. Williams, jr., Assistant, Biological Survey. Pp. 11. (Circular 59, Bureau of Biological Survey.)
- List of Publications of the Biological Survey, Department of Agriculture, 1907. Pp. 7. (Circular 60, Bureau of Biological Survey.)
- The Corn Leaf-aphis and Corn Root-aphis. By F. M. Webster, In Charge of Cereal and Forage-plant Insect Investigations. Pp. 13, figs. 4. (Circular 86, Bureau of Entomology.)
- The Terrapin Scale (*Eulecanium nigrofasciatum* Pergande). By J. G. Sanders, Assistant, Bureau of Entomology. Pp. 4, figs. 3. (Circular 88, Bureau of Entomology.)
- The Periodical Cicada (*Tibicen septendecim* L., race *tredecim* Walsh-Riley) in 1907. By C. L. Marlatt, Entomologist and Acting Chief in Absence of Chief. Pp. 4, figs. 3. (Circular 89, Bureau of Entomology.)
- Organization and Work of the Office of Experiment Stations. Pp. 29. (Doc. 987, Office of Experiment Stations.)
- List of Publications of the Office of Experiment Stations on Agricultural Education. (Corrected to May 1, 1907.) Pp. 11. (Doc. 992, Office of Experiment Stations.)
- List of Publications of the Office of Experiment Stations on the Food and Nutrition of Man. (Corrected to May 1, 1907.) Pp. 16. (Doc. 993, Office of Experiment Stations.)
- List of Publications of the Office of Experiment Stations on Irrigation and Drainage. (Corrected to May 1, 1907.) Pp. 11. (Doc. 994, Office of Experiment Stations.)
- Classification of Experiment Station Accounts. Pp. 3. (Doc. 1001, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during April, 1907. Pp. 7. (Doc. 1002, Office of Experiment Stations.)
- The Control of Forest Fires at McCloud, California. By A. W. Cooper, Forest Inspector, and P. D. Kelleter, Forest Assistant. Pp. 16, fig. 1. (Circular 79, Forest Service.)
- Forest Planting in Illinois. By R. S. Kellogg, Forest Inspector. Pp. 32, figs. 2. (Circular 81, Forest Service.)
- Boxelder (*Acer negundo*). Pp. 3. (Circular 86, Forest Service.)
- Quantity and Character of Creosote in Well-preserved Timbers. By Gellert Alleman, Professor of Chemistry in Swarthmore College. Pp. 16, figs. 2. (Circular 98, Forest Service.)
- Monthly List of Publications, April, 1907. Pp. 4. (Doc. 569, Division of Publications.)
- Public Roads of Minnesota: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 4. (Circular 80, Office of Public Roads.)
- Public Roads of Delaware: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 2. (Circular 81, Office of Public Roads.)
- Public Roads of Michigan: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 4. (Circular 82, Office of Public Roads.)
- Public Roads of Rhode Island: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 2. (Circular 83, Office of Public Roads.)
- Public Roads of Massachusetts: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 3. (Circular 84, Office of Public Roads.)
- Public Roads of Texas: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 6. (Circular 85, Office of Public Roads.)
- Public Roads of Connecticut: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 2. (Circular 86, Office of Public Roads.)
- Public Roads of Vermont: Mileage and Expenditures in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 2. (Circular 87, Office of Public Roads.)
- Crop Reporter, Vol. 9, No. 5, May, 1907. Pp. 33-40.

CIRCULARS—REPRINTS.

- Circular 83, Bureau of Animal Industry. Danger of Infection with Tuberculosis by Different Kinds of Exposure.
- Circular 89, Bureau of Animal Industry. The Preparation of Emulsions of Crude Petroleum.
- Circular 17, Division of Biological Survey. Bird Day in the Schools.
- Circular 56, Bureau of Biological Survey. Value of Swallows as Insect Destroyers.
- Circular 57, Bureau of Biological Survey. Birds Useful in the War against the Cotton Boll Weevil.
- Circular 81, Bureau of Entomology. The Aphids Affecting the Apple.
- Circular 85, Bureau of Entomology. The Spring Grain-aphis.
- Circular 73, Office of Experiment Stations. Country Life Education.
- Circular 47, Forest Service. Strength of Packing Boxes of Various Woods.
- Circular 53, Forest Service. Wood Used for Tight Cooperage Stock in 1905.
- Circular 76, Forest Service. Silver Maple.
- Circular 78, Forest Service. Woods Used for Packing Boxes in New England.
- Circular 80, Forest Service. The Fractional Distillation of Coal-tar Creosote.
- Circular 96, Forest Service. Arbor Day.

FARMERS' BULLETINS—NEW.

Celery. By W. R. Beattie, Assistant Horticulturist, Bureau of Plant Industry. Pp. 38, figs. 16. (Farmers' Bulletin 282.)

This bulletin gives the botany and climatic and soil requirements of the celery plant, directions for its cultivation, storage, and marketing, with a description of its insect enemies and methods for their control. It is designed to supersede Farmers' Bulletin 148, on the same subject.

Spraying for Apple Diseases and the Codling Moth in the Ozarks. By W. M. Scott, of the Bureau of Plant Industry, and A. L. Quaintance, of the Bureau of Entomology. Pp. 44, figs. 7. (Farmers' Bulletin 283.)

An account of experimental work for protection of the apple in the Arkansas-Missouri fruit region by spraying with Bordeaux mixture and arsenic compounds. Interesting commercial results are reported.

Insect and Fungous Enemies of the Grape East of the Rocky Mountains. By A. L. Quaintance, of the Bureau of Entomology, and C. L. Shear, of the Bureau of Plant Industry. Pp. 48, figs. 35. (Farmers' Bulletin 284.)

This bulletin furnishes descriptions of the principal insect enemies of the grape, together with suggestions of remedial measures in each case. It tells, at the close, of fungicides and sprays, and their use.

Comparative Value of Whole Cotton Seed and Cotton-seed Meal in Fertilizing Cotton. By E. B. Boykin, Special Agent, Plant Breeding Investigations, Bureau of Plant Industry. Pp. 16, figs. 2. (Farmers' Bulletin 286.)

A discussion of fertilizer use of seed is followed by a statement regarding use by oil mills. Tests of the value of the seed in comparison with the meal are reported. Also the profit to growers by selling the seed is calculated.

Beans. By L. C. Corbett, Horticulturist, In Charge of the Arlington Experimental Farm, Bureau of Plant Industry. Pp. 30, figs. 12. (Farmers' Bulletin 289.)

Kinds of beans and their respective merits, cultural operations, harvesting, cleaning, and grading are detailed. Growing on a commercial scale and in the garden are both treated.

The Cotton Bollworm: A Summary of Its Life History and Habits, with Some Results of Investigations in 1905 and 1906. By F. C. Bishopp and C. R. Jones, of the Bureau of Entomology. Pp. 32, figs. 4. (Farmers' Bulletin 290.)

This pamphlet furnishes the latest word on a cotton pest that is only overshadowed by the boll weevil. Means for control, including trap crops and cultural methods, are given; also a statement as to injury to corn by the bollworm.

Evaporation of Apples. By H. P. Gould, Assistant Pomologist, Bureau of Plant Industry. Pp. 40, figs. 16. (Farmers' Bulletin 291.)

A timely account of methods of drying fruit by artificial heat. The kinds of evaporators, with their advantages, special appliances for handling, and methods of preparing and handling fruit, are set forth. Grading, packing, storing, prices, and laws on evaporated fruits are also discussed.

Cost of Filling Silos. By Lyman Carrier, Scientific Assistant, Farm Management Investigations, Bureau of Plant Industry. Pp. 15, figs. 3. (Farmers' Bulletin 292.)

This brief account, with accompanying tables, supplies full and valuable information on a subject which is growing in interest with the increased use of silos.

Use of Fruit as Food. By C. F. Langworthy, in Charge of Nutrition Investigations, Office of Experiment Stations. Pp. 40, fig. 1. (Farmers' Bulletin 293.)

A revision and extension of an article published in the Department Yearbook of 1905. Composition and digestibility of fruit, with the effect of ripening on composition, are leading features. Ways of cooking and serving, with directions for handling, marketing, and storing, are also given.

FARMERS' BULLETINS—REPRINTS.

51. Standard Varieties of Chickens. Pp. 48, figs. 25. 63. Care of Milk on the Farm. Pp. 40, figs. 11. 79. Experiment Station Work, VI. Pp. 30, figs. 2. 83. Tobacco Soils. Pp. 24, fig. 1. 91. Potato Diseases and Their Treatment. Pp. 16, figs. 4. 100. Hog Raising in the South. Pp. 40. 112. Bread and the Principles of Bread Making. Pp. 40, figs. 7. 128. Eggs and Their Uses as Food. Pp. 40. 129. Sweet Potatoes. Pp. 40. 170. Principles of Horse Feeding. Pp. 45. 173. A Primer of Forestry. Pp. 48, figs. 33. 183. Meat on the Farm. Pp. 38, figs. 35. 185. Beautifying the Home Grounds. Pp. 24, figs. 8. 193. Experiment Station Work, XXV. Pp. 32, figs. 9. 199. Corn Growing. Pp. 32, figs. 23. 200. Turkeys: Standard Varieties and Management. Pp. 40, figs. 12. 205. Pig Management. Pp. 40, figs. 22. 220. Tomatoes. Pp. 32, figs. 13. 231. Spraying for Cucumber and Melon Diseases. Pp. 24, figs. 8. 239. The Corrosion of Fence Wire. Pp. 32. 255. The Home Vegetable Garden. Pp. 48, figs. 34. 256. Preparation of Vegetables for the Table. Pp. 48. 259. Experiment Station Work, XXXV. Pp. 32, figs. 3. 268. Industrial Alcohol: Sources and Manufacture. Pp. 47, figs. 10. 269. Industrial Alcohol: Uses and Statistics. Pp. 31, figs. 10. 270. Modern Conveniences for the Farm Home. Pp. 48, figs. 26. 283. Spraying for Apple Diseases and the Codling Moth in the Ozarks. Pp. 44, figs. 7.

SEPARATES, YEARBOOKS, DEPARTMENT OF AGRICULTURE.

Four Common Birds of the Farm and Garden. By Sylvester D. Judd, Assistant Ornithologist, U. S. Department of Agriculture. Pp. 405-418, figs. 4. (Sep. 37, Y. B. 1895.)

Fertilizers for Special Crops. By A. F. Woods and R. E. B. McKenney, of the Bureau of Plant Industry. Pp. iii, 553-572. (Sep. 290, Y. B. 1902.)

Cultivation and Fertilization of Peach Orchards. By M. B. Waite, Pathologist in Charge of Investigations of Diseases of Orchard Fruits, Bureau of Plant Industry. Pp. iii, 607-626. (Sep. 293, Y. B. 1902.)

Opportunities in Agriculture. I. Growing Crops under Glass. By B. T. Galloway, Chief of the Bureau of Plant Industry. II. Fruit Growing. By M. B. Waite, Pathologist in Charge of Investigations of Diseases of Orchard Fruits, Bureau of Plant Industry. III. General Farming. By W. J. Spillman, Agrostologist, Bureau of Plant Industry. Pp. ii, 161-190, pls. 3. (Sep. 340, Y. B. 1904.)

Progress in Drug-plant Cultivation. By Rodney H. True, Physiologist in Charge of Drug-plant Investigations, Bureau of Plant Industry. Pp. iii, 533-540, pls. 3. (Sep. 401, Y. B. 1905.)

SEPARATES, BULLETIN 184, OFFICE OF EXPERIMENT STATIONS.

- Report of Bibliographer. Books by Agricultural College and Experiment Station Officers. By A. C. True, Director of Office of Experiment Stations. Pp. 21-30. (Doc. 988, Office of Experiment Stations.)
- Annual Address of the President of the Association. By M. H. Buckham, President of the University of Vermont. Pp. 40-46. (Doc. 991, Office of Experiment Stations.)
- Memorial to President George W. Atherton. By H. P. Armsby, Director of the Pennsylvania Agricultural Experiment Station. Pp. 31-36. (Doc. 989, Office of Experiment Stations.)
- Memorial to Henry Cullen Adams. By W. A. Henry, Director of the Wisconsin Agricultural Experiment Station. Pp. 36-40. (Doc. 990, Office of Experiment Stations.)

PUBLICATIONS OF THE WEATHER BUREAU.

- Monthly Weather Review, Vol. XXXV, No. 1. January, 1907. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 1-49, figs. 3, charts 10. (W. B. 368.) Price 20 cents; \$2.50 per year.
- Monthly Weather Review, Vol. XXXV, No. 2, February, 1907. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 51-102, figs. 5, charts 9. (W. B. 369.) Price 20 cents; \$2.50 per year.

CHARTS OF THE WEATHER BUREAU.

- National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. Issued each Monday in May. Nos. 8, 9, 10, 11.
- Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE FOR DISTRIBUTION.

- Bulletin 36, Part 1, Bureau of Forestry. The Woodsman's Handbook.
- Experiment Station Record. Vol. 6, Nos. 3, 5, 7, 9, 10. Vol. 7, Nos. 6, 8, 9, 10. Vol. 9, Nos. 4, 6. Vol. 11, No. 5.
- Farmers' Institute Lecture No. 2, Revised. Syllabus of Illustrated Lecture on Potato Diseases and Their Treatment.
- Farmers' Institute Lecture No. 3, Revised. Syllabus of Illustrated Lecture on Acid Soils.

GEO. WM. HILL,
Editor in Chief.

Approved:
JAMES WILSON, *Secretary of Agriculture.*

This circular will be sent regularly to all who apply for it.

No. 575.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., June 29, 1907.

MONTHLY LIST OF PUBLICATIONS.^a

[JUNE, 1907.]

NOTE.—To obtain those publications to which a price is affixed application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

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The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS—FIELD OPERATIONS, BUREAU OF SOILS, 1906.

- Soil Survey of Caddo Parish, Louisiana. By James L. Burgess, Lewis A. Hurst, Henry J. Wilder, and Charles F. Shaw. Pp. 36, fig. 1, maps 2.
 Soil Survey of Montgomery County, Mississippi. By Thomas A. Caine and Frank C. Schroeder. Pp. 24, fig. 1, map.
 Soil Survey of Oklahoma County, Oklahoma. By W. E. McLendon and Grove B. Jones. Pp. 27, fig. 1, map.
 Soil Survey of Pontotoc County, Mississippi. By Frank Bennett and R. A. Winston. Pp. 26, fig. 1, map.

REPORTS—NEW.

- Yearbook of the U. S. Department of Agriculture, 1906. Pp. 720, frontispiece, pls. 43, figs. 22. Price \$1.

The Yearbook contains the annual report of the Secretary of Agriculture, 120 pages, and thirty miscellaneous papers, 332 pages, covering a wide variety of subjects thoroughly representative of the varied scientific work conducted by the Department. Also an Appendix, 241 pages, and Index, 26 pages. The Appendix contains lists of names and post-offices of persons prominent in agricultural work in all its branches, including a statement of the Department organization with the names of the persons in charge of the several branches of work. It presents summaries of agricultural observations in several fields of legislation on forestry, roads, and game protection, and a statement on the Federal meat inspection law with a review of the animal industry work, unusually full. It closes with the annual statistical tables covering production and prices of the principal crops and farm animals, and the imports and exports of agricultural products. A new feature is a table of cotton production, domestic consumption, and exports, from 1790 to the present, and of prices from 1869.

Only 6 out of each 100 of this publication are assigned to this Department, which is insufficient to supply even its regular correspondents and coworkers. Miscellaneous applicants are therefore respectfully referred to their Senators, Representatives, and Delegates in Congress, to whom the other 94 per cent are allotted for distribution. The Superintendent of Documents has it for sale at — cents per copy.

- Annual Report of Alaska Agricultural Experiment Stations for 1906. C. C. George-son, Special Agent in Charge. Under the supervision of Office of Experiment Stations, U. S. Department of Agriculture. Pp. 75, pls. 10.

BULLETINS—NEW.

- Index-catalogue of Medical and Veterinary Zoology. [Authors: M to Martirano.] By Ch. Wardell Stiles, Zoologist of U. S. Public Health and Marine-Hospital Service, and Albert Hassall, Assistant in Zoology, Bureau of Animal Industry. Pp. ii, 1209–1304. (Bulletin 39, Part 17, Bureau of Animal Industry.) Price 15 cents.

^aThe character of this list will be changed with the July issue. From that time it will not be a complete record of Department publications, but will contain the titles of all new publications of general interest, and of reprints of which notice is desired for special reason.

- A Comparative Study of Tubercle Bacilli from Varied Sources. By John R. Mohler, Chief of Pathological Division, and Henry J. Washburn, Assistant Chief of Pathological Division. Pp. 88, pls. 6. (Bulletin 96, Bureau of Animal Industry.) Price 40 cents.
- The Germicidal Value of Liquor Cresolis Compositus (U. S. P.). By C. N. McBryde, Bacteriologist, Biochemic Division. Pp. 24. (Bulletin 100, Bureau of Animal Industry.) Price 5 cents.
- Papers on Deciduous Fruit Insects and Insecticides. The Pear Thrips. By Dudley Moulton, Engaged in Deciduous Fruit Insect Investigations. Pp. iv, 16, pls. 2, figs. 8. (Bulletin 68, Part I, Bureau of Entomology.) Price 10 cents.
- The Chinch Bug. By F. M. Webster, in Charge of Cereal and Forage-Plant Insect Investigations. Pp. 95, figs. 19. (Bulletin 69, Bureau of Entomology.) Price 15 cents.
- Report of the Meeting of Inspectors of Apiaries, San Antonio, Tex., November 12, 1906. Pp. 79, pl. 1. (Bulletin 70, Bureau of Entomology.) Price 15 cents.
- Experiments on the Metabolism of Matter and Energy in the Human Body, 1903-1904. By F. G. Benedict and R. D. Milner. Pp. 335, pls. 2, figs. 4. (Bulletin 175, Office of Experiment Stations.) Price 50 cents.
- Studies on the Digestibility and Nutritive Value of Legumes at the University of Tennessee, 1901-1905. By Chas. E. Wait, Professor of Chemistry, University of Tennessee. Pp. 55. (Bulletin 187, Office of Experiment Stations.) Price 10 cents.
- The History of the Cowpea and Its Introduction into America. By W. F. Wight, Assistant Botanist, Taxonomic Investigations. Pp. 21, pls. 3. (Bulletin 102, Part VI, Bureau of Plant Industry.) Price 10 cents.
- The Relation of the Composition of the Leaf to the Burning Qualities of Tobacco. By Wightman W. Garner, Scientific Assistant, Tobacco Breeding Investigations, Bureau of Plant Industry. Pp. 27. (Bulletin 105, Bureau of Plant Industry.) Price 10 cents.
- The Construction of Macadam Roads. By Austin B. Fletcher, Special Agent, Office of Public Roads. Pp. 56, pls. 6, figs. 3. (Bulletin 29, Office of Public Roads.) Price 10 cents.
- Further Studies on the Properties of Unproductive Soils. By Burton Edward Livingston and others. Pp. 71, pls. 7. (Bulletin 36, Bureau of Soils.) Price 15 cents.
- Some Factors Influencing Soil Fertility. By Oswald Schreiner and Howard S. Reed. Pp. 40, pls. 3. (Bulletin 40, Bureau of Soils.) Price 10 cents.
- The Action of Water and Aqueous Solutions upon Soil Phosphates. By Frank K. Cameron and James M. Bell. Pp. 58, figs. 5. (Bulletin 41, Bureau of Soils.) Price 10 cents.

BULLETINS—REPRINTS.

- Bulletin 108, Office of Experiment Stations. Irrigation Practice among Fruit Growers on the Pacific Coast. Price 15 cents.
- Bulletin 33, Bureau of Forestry. The Western Hemlock. Price 20 cents.

CIRCULARS—NEW.

- Sanitary Relations of the Milk Supply. Pp. 7. (Circular 111, Bureau of Animal Industry.)
- List of Publications of the Biological Survey, Department of Agriculture, 1907. Pp. 7. (Circular 60, revised, Bureau of Biological Survey.)
- The Colorado Potato Beetle (*Leptinotarsa decemlineata* Say). By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. Pp. 15, figs. 6. (Circular 87, Bureau of Entomology.)
- The White-pine Weevil. By A. D. Hopkins, in Charge of Forest Insect Investigations. Pp. 8, figs. 6. (Circular 90, Bureau of Entomology.)
- Fertilizadores ó Abonos. Por D. W. May, Agente Especial Encargado. Pp. 18. (Circular 6, Estación de Experimentos Agrícolas de Puerto Rico.)
- List of Station Publications Received by the Office of Experiment Stations during May, 1907. Pp. 5. (Doc. 1013, Office of Experiment Stations.)
- Practical Assistance to Farmers, Lumbermen, and Other Owners of Forest Lands. Pp. 5. (Circular 21, Fifth Revision, Forest Service.)
- Russian Mulberry (*Morus alba tatarica*). Pp. 3. (Circular 83, revised, Forest Service.)
- Suggestions for Forest Planting in the Northeastern and Lake States. Pp. 15, fig. 1. (Circular 100, Forest Service.)
- White Oak (*Quercus alba*). Pp. 4. (Circular 106, Forest Service.)
- Sawmill Statistics. Pp. 2. (Circular 107, Forest Service.)

Publications for Sale (Revised to June 1, 1907). Pp. 87. (Circular 3, Division of Publications.)

Monthly List of Publications, May, 1907. Pp. 4. (Doc. 572, Division of Publications.)

Crop Reporter, Vol. 9, No. 6, June, 1907. Pp. 41-48.

A three-column quarto publication devoted to agricultural statistics.

CIRCULARS—REPRINTS.

Circular 19, Office of the Secretary. Standards of Purity for Food Products.

Circular 1, revised, Bureau of Animal Industry. Directions for the Pasteurization of Milk.

Circular 85, Bureau of Animal Industry. The Tapeworms of American Chickens and Turkeys.

Circular 97, Bureau of Animal Industry. How to Get Rid of Cattle Ticks.

Circular 107, Bureau of Animal Industry. Capons and Caponizing.

Circular 109, Bureau of Animal Industry. Quail Diseases in the United States.

Circular 34, Second Series, revised, Bureau of Entomology. House Ants.

Circular 46, Second Series, revised, Bureau of Entomology. Hydrocyanic-acid Gas against Household Insects.

Circular 12, Division of Forestry. Southern Pine—Mechanical and Physical Properties.

Circular 15, Division of Forestry. Summary of Mechanical Tests on Thirty-two Species of American Woods.

Circular 22, revised, Forest Service. Practical Assistance to Tree Planters.

Circular 25, Bureau of Forestry. Forestry and the Lumber Supply.

Circular 36, Forest Service. The Forest Service: What It Is and How It Deals with Forest Problems.

Circular 43, Forest Service. Cross-ties Purchased by the Steam Railroads of the United States in 1905.

Circular 48, Forest Service. Kiln-drying Hardwood Lumber.

Circular 50, Forest Service. Wood Used for Distillation in 1905.

Circular 51, Forest Service. Wood Used for Veneer in 1905.

Circular 55, Forest Service. How to Pack and Ship Young Forest Trees.

Circular 56, Forest Service. Bur Oak (*Quercus macrocarpa*).

Circular 61, Forest Service. How to Transplant Forest Trees.

Circular 69, Forest Service. Fence-post Trees.

Circular 75, Forest Service. Hackberry (*Celtis occidentalis*).

FARMERS' BULLETINS—NEW.

Farm Practice in the Columbia Basin Uplands. By Byron Hunter, Assistant Agriculturist, Farm Management Investigations, Bureau of Plant Industry. Pp. 32, figs. 9. (Farmers' Bulletin 294.)

A description of the uplands of the Columbia Basin, the methods of tillage in use by the farmers of this region with the relative merits of the different methods, and a study of the varieties of wheat grown and their adaptability to the different sections.

Potatoes and Other Root Crops as Food. By C. F. Langworthy, in Charge of Nutrition Investigations, Office of Experiment Stations. Pp. 47, figs. 4. (Farmers' Bulletin 295.)

A summary of information concerning the composition, digestibility, and nutritive value, etc., of potatoes, artichokes, tropical starch-bearing roots, succulent roots, tubers and bulbs, and roots used as condiments.

Experiment Station Work, XLI. Compiled from the Publications of the Agricultural Experiment Stations. (Farmers' Bulletin 296.)

CONTENTS: Wells and pure water—Phosphates and soil acidity—Pure seed v. poor seed—Disease-resistant clover—Eradication of wild mustard—Sterilization of soils for preventing plant diseases—Seedless tomatoes—Pickling olives and mock olives—Hay box or fireless cooker—Insect enemies of shade trees—Feeding whole grain—Improvement of cattle—Ventilation of stables—Hog cots—Preserving eggs—American Camembert cheese.

Methods of Destroying Rats. By David E. Lantz, Assistant, Bureau of Biological Survey. Pp. 8, fig. 1. (Farmers' Bulletin 297.)

This bulletin is issued in response to numerous calls for practical methods of destroying rats. It contains descriptions of different methods of poisoning, trapping rats, the use of ferrets and dogs, and fumigation, gives a list of their natural enemies, and suggests means of excluding them from buildings.

Diversified Farming under the Plantation System. By D. A. Brodie, Assistant Agriculturist, and C. K. McClelland, Scientific Assistant, Farm Management Investigations, Bureau of Plant Industry. Pp. 16. (Farmers' Bulletin 299.)

This presents a discussion of the advantages of diversified farming over the one-crop system, with an account of an experiment in diversified farming on a plantation in Louisiana in 1906.

Some Important Grasses and Forage Plants for the Gulf Coast Region. By S. M. Tracy, Special Agent, Farm Management Investigations, Bureau of Plant Industry. Pp. 15, figs. 5. (Farmers' Bulletin 300.)

This bulletin discusses the use of Mexican clover (purslane), beggar weed, velvet beans, guinea grass, and Para grass as forage plants, and gives directions for handling them.

Home-grown Tea. By George F. Mitchell, Scientific Assistant in Tea Culture Investigations, Bureau of Plant Industry. Pp. 16, figs. 4. (Farmers' Bulletin 301.)

Directions for soil selection, planting, cultivating, picking, and curing of tea for home use, with suggestions on preparation for the table.

FARMERS' BULLETINS—REPRINTS.

120. The Principal Insects Affecting the Tobacco Plant. Pp. 32, figs. 25.

134. Tree Planting on Rural School Grounds. Pp. 32, figs. 17.

173. A Primer of Forestry. Pp. 48, figs. 33.

229. The Production of Good Seed Corn. Pp. 24, figs. 10.

257. Soil Fertility. Pp. 40, figs. 2.

258. Texas or Tick Fever and Its Prevention. Pp. 47, figs. 6.

272. A Successful Hog and Seed-Corn Farm. Pp. 16, figs. 5.

SEPARATES, YEARBOOKS, DEPARTMENT OF AGRICULTURE.

A Working Plan for Southern Hardwoods, and its Results. By John Foley, Field Assistant, Bureau of Forestry. Pp. ii, 471-476, pls. 3. (Sep. 249, Y. B. 1901.)

Practicability of Forest Planting in the United States. By William L. Hall, Chief of Division of Forest Extension, Bureau of Forestry. Pp. iii, 133-144, pls. 4. (Sep. 270, Y. B. 1902.)

Influence of Forestry upon the Lumber Industry. By Overton W. Price, Assistant Forester, Bureau of Forestry. Pp. iii, 309-312, pls. 3. (Sep. 274, Y. B. 1902.)

The Relation of Forests to Stream Flow. By James W. Toumey, Collaborator, Bureau of Forestry. Pp. iii, 279-288. (Sep. 329, Y. B. 1903.)

SEPARATE, BULLETIN 158, OFFICE OF EXPERIMENT STATIONS.

Irrigation Investigations at New Mexico Experiment Station, Mesilla Park, 1904. By J. J. Vernon, Professor of Agriculture, New Mexico Agricultural College. Irrigation Investigations in Western Texas. By Harvey Culbertson, Agent and Expert in Pumping Investigations. Pumping Plants in Texas. By C. E. Tait, Irrigation Engineer. Pp. iv, 303-346, figs. 8. (Sep. 5, O. E. S.)

SEPARATE, BULLETIN 184, OFFICE OF EXPERIMENT STATIONS.

Memorial to President George W. Atherton. By H. P. Armsby, Director of the Pennsylvania Agricultural Experiment Station. Pp. 31-36. (Doc. 989, O. E. S.)

PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. XXXV, No. 3, March, 1907. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 103-154, figs. 10, charts 10. (W. B. 370.) Price 20 cents; \$2.50 per year.

Charts of the Weather Bureau.

National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. Issued each Monday in June. Nos. 12, 13, 14, 15.

Daily Weather Map, showing weather conditions throughout the United States and giving forecasts of probable changes.

PUBLICATIONS NOT AVAILABLE FOR DISTRIBUTION.

SEPARATES, BULLETIN 105, BUREAU OF CHEMISTRY.

Report on Determination of Water in Foods. By F. C. Weber, Associate Referee, Association of Official Agricultural Chemists. Pp. 58-65.

Report on Fats and Oils. (Cooperative Work on the Cloud and Cold Tests for 1905 to 1906.) By L. M. Tolman, Associate Referee. Pp. 29-37.

GEO. WM. HILL,
Editor in Chief.

Approved:

JAMES WILSON, *Secretary of Agriculture.*

This circular will be sent regularly to all who apply for it.

No. 577.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *July 31, 1907.*

MONTHLY LIST OF PUBLICATIONS.

[JULY, 1907.]

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ADVANCE SHEETS, SOIL SURVEY.

Soil Survey of Chester County, Pennsylvania. By Henry J. Wilder, Thomas A. Caine, W. J. Geib, and William T. Carter, jr. Pp. 44, fig. 1, map. (Field Operations, Bureau of Soils, 1905.)

Soil Survey of the Wheeling Area, West Virginia. By Thomas A. Caine and G. W. Tailby, jr. Pp. 32, map. (Field Operations, Bureau of Soils, 1906.)

BULLETINS.

NEW.

Index-catalogue of Medical and Veterinary Zoology. (Authors: Martius to Mitrofanow.) By Ch. Wardell Stiles, Consulting Zoologist of the Bureau of Animal Industry, and Albert Hassall, Assistant Zoologist, Bureau of Animal Industry. Pp. ii, 1305-1398. (Bulletin 39, Part 18, Bureau of Animal Industry.) Price 15 cents.

Proceedings of the Twenty-third Annual Convention of the Association of Official Agricultural Chemists, held at Washington, D. C., November 14-16, 1906. Edited by Harvey W. Wiley, Secretary of the Association. Pp. 213. (Bulletin 105, Bureau of Chemistry.) Price 25 cents.

Papers on Deciduous-fruit insects and insecticides. The Spring Canker-worm. By A. L. Quaintance, in charge of Deciduous-Fruit Insect Investigations. Pp. ii, 22, pls. 2. (Bulletin 68, Part 2, Bureau of Entomology.) Price 5 cents.

New Genera and Species of Aphelininae with a Revised Table of Genera. By L. O. Howard, Entomologist. Pp. 88, figs. 10. (Bulletin 12, Part 4, technical series, Bureau of Entomology.) Price 5 cents.

The Periodical Cicada. By C. L. Marlatt, Entomologist. Pp. 181, pls. 6, figs. 68. (Bulletin 71, Bureau of Entomology.) Price 40 cents.

Mechanical Tests of Pumping Plants in California. By J. N. Le Conte and C. E. Tait. (Work done in cooperation between the Irrigation and Drainage Investigations of the Office of Experiment Stations and the State of California.) Pp. 72, figs. 10. (Bulletin 181, Office of Experiment Stations. Price 15 cents.

Irrigation in the Yakima Valley, Washington. By S. O. Jayne, Irrigation Manager, Office of Experiment Stations. Pp. 89, pls. 2, figs. 4. (Bulletin 188, Office of Experiment Stations.) Price 15 cents.

Experiment Station Record, Vol. XVIII, No. 10, June, 1907. E. W. Allen, Ph. D., Editor. Pp. ix, 901-1000. (No single copies of Vol. XVIII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts; and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

Catalogue of Periodicals and other Serial Publications (exclusive of U. S. Government publications) in the Library of the U. S. Department of Agriculture. Supplement No. 1 (1901-1905). Pp. 217. (Bulletin 37, Supplement 1, Library.) Price 30 cents.

A New Method for the Determination of Nicotine in Tobacco. By Wightman W. Garner, Scientific Assistant, Tobacco Breeding Investigations. Pp. 13. (Bulletin 102, Part 7, Bureau of Plant Industry.) Price 5 cents.

The Larkspurs as Poisonous Plants. By Albert C. Crawford, Pharmacologist. Pp. 12, pl. 1. (Bulletin 111, Part 1, Bureau of Plant Industry.) Price 5 cents.

The Corrosion of Iron. By Allerton S. Cushman, Assistant Director, Office of Public Roads. Pp. 35, pls. 7, figs. 3. (Bulletin 30, Office of Public Roads.) Price 10 cents.

Reclamation of White-ash Lands Affected with Alkali at Fresno, California. By W. W. Mackie. Pp. 47, figs. 2. (Bulletin 42, Bureau of Soils.) Price 10 cents.

Bulletin 43, Bureau of Soils. Reclamation of Alkali Land in Salt Lake Valley, Utah. Price 10 cents.

Bulletin 44, Bureau of Soils. Reclamation of Alkali Soils at Billings, Montana. Price 10 cents.

REPRINTS.

Bulletin 27, New Series, Revised, Division of Entomology. Some Insects Injurious to the Violet, Rose, and Other Ornamental Plants. Price 10 cents.

Bulletin 29, New Series, Division of Entomology. The Fall Army Worm and Variegated Cutworm. Price 5 cents.

Bulletin 186, Office of Experiment Stations. Exercises in Elementary Agriculture. Plant Production. Price 10 cents.

Bulletin 26, Division of Forestry. Practical Forestry in the Adirondacks. Price 15 cents.

Bulletin 78, Bureau of Plant Industry. Improving the Quality of Wheat. Price 10 cents.

Bulletin 100, Part 6, Bureau of Plant Industry. Orchard Grass. Price 5 cents.

Bulletin 100, Part 7, Bureau of Plant Industry. The Effect of Copper upon Water Bacteria. Price 5 cents.

Bulletin 100, Part 8, Bureau of Plant Industry. Conditions affecting Legume Inoculation. Price 10 cents.

CIRCULARS.

NEW.

The Man Who Works with His Hands. Address of President Roosevelt at the Semi-Centennial Celebration of the Founding of Agricultural Colleges in the United States, at Lansing, Mich., May 31, 1907. Pp. 14. (Circular 24, Office of the Secretary.)

Relative Proportions of the Sexes in Litters of Pigs. By George M. Rommel, Animal Husbandman. P. 1. (Circular 112, Bureau of Animal Industry.)

Classification of American Carriage Horses. Pp. 4. (Circular 113, Bureau of Animal Industry.)

Amendment No. 2 to Rule 1, Revision 2.—To Prevent the Spread of Splenetic Fever in Cattle, Effective on and after August 1, 1907. (Amendment 2 to B. A. I. Order No. 144.)

Regulations Prescribed in Regard to Renovated Butter in Accordance with the Act of Congress Approved May 9, 1902. Pp. 8. (B. A. I. Order 147.)

Hawks and Owls from the Standpoint of the Farmer. By A. K. Fisher, In Charge of Economic Investigations, Biological Survey. Pp. 18. (Circular 61, Biological Survey.)

Directory of Officials and Organizations Concerned with the Protection of Birds and Game, 1907. Pp. 16. (Circular 62, Bureau of Biological Survey.)

Note on the Occurrence of the North American Fever Tick on Sheep. By W. D. Hunter, In Charge of Cotton Boll Weevil Investigations. Pp. 3. (Circular 91, Bureau of Entomology.)

The Cause of American Foul Brood. By G. F. White, Expert in Bacteriology. Pp. 4. (Circular 94, Bureau of Entomology.)

Federal Legislation, Regulations, and Rulings Affecting Agricultural Colleges and Experiment Stations. Pp. 20. (Circular 68, revised, Office of Experiment Stations.)

Suggestions to Prospective Forest Students. Pp. 4. (Circular 23, third revision, Forest Service.)

- Suggestions for Forest Planting on the Semi-arid Plains. Pp. 15. (Circular 99, Forest Service.)
- The Open-tank Method for the Treatment of Timber. By Carl G. Crawford, Chief, Office of Wood Preservation. Pp. 15, figs. 4. (Circular 101, Forest Service.)
- Production of Red Cedar for Pencil Wood. By L. L. White, Forest Assistant. Pp. 19. (Circular 102, Forest Service.)
- Seasoning of Telephone and Telegraph Poles. By Henry Grinnell, Forest Inspector. Pp. 16. (Circular 103, Forest Service.)
- Brush and Tank Pole Treatments. By Carl G. Crawford, Chief, Office of Wood Preservation. Pp. 24, figs. 3. (Circular 104, Forest Service.)
- White Oak in the Southern Appalachians. By W. B. Greeley, Forest Supervisor, and W. W. Ashe, Forest Assistant. Pp. 27. (Circular 105, Forest Service.)
- Location, Date of Latest Proclamation, and Area of the National Forests in the United States, Alaska, and Porto Rico. July 1, 1907. Pp. 4. (Forest Service. No number.)
- Instructions for Examinations. Agricultural Settlement. (Act of June 11, 1906.) July 1, 1907. Canceling all previous conflicting instructions. Pp. 12. (Forest Service. No number.)
- Production of Lumber, Lath, and Shingles, by States and Species, 1906, 1905, and 1904. Broadside. (Forest Service. No number.)
- Publications for Sale. Revised to June 1, 1907. Pp. 87. (Circular 3, Division of Publications.)
- Monthly List of Publications, June, 1907. Pp. 4. (Doc. 575, Division of Publications.)
- Crop Reporter, vol. 9, No. 7, July, 1907. Pp. 49-56.

A two-column quarto publication devoted to agricultural statistics.

REPRINTS.

- Circular 21, Office of the Secretary Rules and Regulations for the Enforcement of the Food and Drugs Act.
- Circular 84, Bureau of Animal Industry. Enzymes in Cornstalks and Their Relation to Cornstalk Disease.
- Circular 88, Bureau of Animal Industry. Highland Cattle.
- Circular 93, Bureau of Animal Industry. The Life History of the Twisted Wireworm (*Hæmonchus contortus*) of Sheep and Other Ruminants.
- Circular 97, Bureau of Animal Industry. How to Get Rid of Cattle Ticks.
- Circular 77, Bureau of Entomology. Harvest Mites or "Chiggers."
- Circular 69, Office of Experiment Stations. A Four years' Course in Agriculture.
- Circular 42, Forest Service. Consumption of Tanbark in 1905.
- Circular 84, Forest Service. White Ash.
- Circular 85, Forest Service. Slippery Elm.
- Circular 86, Forest Service. Boxelder.
- Circular 87, Forest Service. White Willow.
- Circular 88, Forest Service. Black Walnut.
- Circular 89, Forest Service. Tamarack.
- Circular 90, Forest Service. Osage Orange.
- Circular 91, Forest Service. Coffeetree.
- Circular 92, Forest Service. Green Ash.
- Circular 93, Forest Service. Yellow Poplar.
- Circular 94, Forest Service. Black Cherry.
- Circular 95, Forest Service. Sugar Maple.
- Circular 48, Office of Public Roads. Public Roads of Tennessee: Mileage and Expenditures in 1904.

FARMERS' BULLETINS.

- Poultry Management. By G. Arthur Bell, Assistant Animal Husbandman, Bureau of Animal Industry. Pp. 48, figs. 14. (Farmers' Bulletin 287.)

This bulletin deals with chicken raising, containing suggestions and directions for construction of poultry houses, selection of breeds, treatment and care of chicks and capons, remedies for diseases and bad habits of the fowls, methods of preserving eggs, etc. It is designed to supersede Farmers' Bulletins 41 and 141, entitled "Fowls: Care and Feeding" and "Poultry Raising on the Farm," respectively.

- Food Value of Corn and Corn Products. By Charles D. Woods, Director, Maine Agricultural Experiment Station. Pp. 40, figs. 2. (Farmers' Bulletin 298.)

History of the maize plant, with studies on the digestibility and food value of this cereal in its various uses. Corn breakfast foods, pop corn, and green corn receive attention, and the use of raw corn and parched corn are considered. Milling and cooking are also features of the bulletin.

SEPARATES.

YEARBOOKS, DEPARTMENT OF AGRICULTURE.

- Birds as Weed Destroyers. By Sylvester D. Judd, Assistant in Biological Survey. Pp. ii, 221-232, pl. 1, figs. 7. (Sep. 133, Y. B., 1898.)
- The Annual Loss Occasioned by Destructive Insects in the United States. By C. L. Marlatt, Assistant Entomologist, in Charge of Experimental Field Work, Bureau of Entomology. Pp. ii, 461-474. (Sep. 360, Y. B., 1904.)

BUREAU OF ANIMAL INDUSTRY REPORT.

- Poultry Management. By G. Arthur Bell, Assistant Animal Husbandman. Pp. ii, 213-266, pls. 5, figs. 7. (B. A. I. Report, 1905.)

PUBLICATIONS OF THE WEATHER BUREAU.

- Monthly Weather Review. Vol. XXXV, No. 4, April, 1907. Prepared under the direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 155-205, charts 8, pls. 3, figs. 7. (W. B., No. 371.) Price 20 cents; \$2.50 a year.
- National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. Issued each Monday in July. Nos. 16, 17, 18, 19, 20.

GEO. WM. HILL,
Editor and Chief.

Approved:
JAMES WILSON, *Secretary of Agriculture.*

296M
This circular will be sent regularly to all who apply for it.

No. 578.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., *August 31, 1907.*

MONTHLY LIST OF PUBLICATIONS.

[AUGUST, 1907.]

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Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

REPORTS.

NEW.

Special Report on Diseases of the Horse, Revised 1907. By Drs. Pearson, Michener, Law, Harbaugh, Trumbower, Liautard, Holcombe, Huidekoper, Stiles, Mohler, and Adams. Pp. 608, pls. 41, figs. 18. Price cloth, 65 cents.

Reprinted by authority of Congress. No copies for general distribution by the Department.

Annual Report of the Office of Experiment Stations for the Year Ended June 30, 1906. A. C. True, Director. Pp. 434, pls. 16, figs. 13. Price cloth, 50 cents.

BULLETINS.

NEW.

Index-catalogue of Medical and Veterinary Zoology. Part 19. (Authors: Mitschein to Myrepsus.) By Ch. Wardell Stiles, Consulting Zoologist of Bureau of Animal Industry, and Albert Hassall, Assistant in Zoology, Bureau of Animal Industry. Pp. ii, 1399-1492. (Bulletin 39, Part 19, Bureau of Animal Industry.) Price 15 cents.

Game Commissioners and Wardens, Their Appointment, Powers, and Duties. By R. W. Williams, Jr., Game Law Assistant, Biological Survey. Pp. 285, pls. 7. (Bulletin 28, Biological Survey.) Price 35 cents.

Cassava: Its Content of Hydrocyanic Acid and Starch and Other Properties. By Charles C. Moore, Chief, Plant Analysis Laboratory. Pp. 30. (Bulletin 106, Bureau of Chemistry.) Price 5 cents.

Some Insects Injurious to Truck Crops. The Cranberry Spanworm. The Striped Garden Caterpillar. By F. H. Chittenden, Entomologist in Charge of Breeding Experiments. Pp. 12, figs. 2. (Bulletin 66, Part III, Bureau of Entomology.) Price 5 cents.

Report on the Drainage of the Eastern Parts of Cass, Traill, Grand Forks, Walsh, and Pembina Counties, North Dakota. By John T. Stewart, Drainage Engineer, Irrigation and Drainage Investigations. Pp. 71, pls. 6, figs. 2. (Bulletin 189, Office of Experiment Stations.) Price 25 cents.

Irrigation and Drainage Laws of Italy. Translated by R. P. Teele, Expert in Irrigation Institutions. Pp. 100. (Bulletin 192, Office of Experiment Stations.) Price 15 cents.

Experiment Station Record, Vol. XVIII, No. 11, July, 1907. E. W. Allen, Ph. D., Editor. Pp. viii, 1001-1100. (No single copies of Vol. XVIII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume X, at \$1, payable in advance.

The Use of Suprarenal Glands in the Physiological Testing of Drug Plants. By Albert C. Crawford, Pharmacologist, Drug-Plant Investigations. Pp. 32. (Bulletin 112, Bureau of Plant Industry). Price 10 cents.

Examination and Classification of Rocks for Road Building, Including the Physical Properties of Rocks with Reference to Their Mineral Composition and Structure. By Edwin C. E. Lord, Petrographer, Office of Public Roads. Pp. 29, pls. 10, fig. 1. (Bulletin 31, Office of Public Roads). Price 15 cents.

Improvement of Virginia Fire-cured Tobacco. By George T. McNess and E. H. Mathewson, of the Bureau of Soils, and B. G. Anderson, of the Virginia Agricultural Experiment Station. Pp. 40, pls. 6, figs. 2. (Bulletin 46, Bureau of Soils) Price 10 cents.

REPRINTS.

Bulletin 73, Bureau of Chemistry. Proceedings of the Nineteenth Annual Convention of the Association of Official Agricultural Chemists, held at Washington, D. C., October 2, 3, and 4, 1902. Price 10 cents.

Bulletin 71, Forest Service. Rules and Specifications for the Grading of Lumber Adopted by the Various Lumber Manufacturing Associations of the United States. Price 15 cents.

Bulletin 35, Bureau of Soils. Alkali Soils of the United States, a Review of Literature and Summary of Present Information. Price 25 cents.

CIRCULARS.

NEW.

Sanitary Milk Production. Report of a Conference Appointed by the Commissioners of the District of Columbia, with Accompanying Papers. Pp. 38. (Circular 114, Bureau of Animal Industry.)

Officials, Associations, Commissions, and Educational Institutions Connected with the Dairy Interests of the United States for the Year 1907. Pp. 22. (Circular 115, Bureau of Animal Industry.)

Report on Colors: The Solubility and Extraction of Colors and the Color Reactions of Dyed Fiber and of Aqueous and Sulphuric-acid Solutions. By H. M. Loomis, Chemist cooperating with the referee on colors, Association Official Agricultural Chemists. Pp. 51. (Circular 35, Bureau of Chemistry.)

Chemical Methods for Utilizing Wood, Including Destructive Distillation, Recovery of Turpentine, Rosin, and Pulp, and the Preparation of Alcohols and Oxalic Acid. By F. P. Veitch, Chief, Leather and Paper Laboratory. Pp. 47, figs. 16. (Circular 36, Bureau of Chemistry.)

The Spring Grain-aphis or So-called "Green Bug," *Toxoptera graminum* Bond. By F. M. Webster, in Charge of Cereal and Forage-Plant Insect Investigations. Pp. 18, figs. 7. (Circular 93, Bureau of Entomology.)

The Card Index of Experiment Station Literature. Pp. 2. (Circular 47, Revised, Office of Experiment Stations.)

Report of Committee on Extension Work, 1906-7. Pp. 16. (Circular 75, Office of Experiment Stations.)

List of Station Publications Received by the Office of Experiment Stations during July, 1907. Pp. 6. (Doc. 1032, Office of Experiment Stations.)

Syllabus of Illustrated Lecture on Roads and Road Building. By The Office of Public Roads, U. S. Department of Agriculture. Pp. 16. (Farmers' Institute Lecture 7, Office of Experiment Stations.)

- The Strength of Wood as Influenced by Moisture. By Harry Donald Tiemann, Assistant Forest Inspector. Pp. 42, figs. 6. (Circular 108, Forest Service.)
- Forest Planting in the North Platte and South Platte Valleys. By Frank G. Miller, Former Assistant. Pp. 20. (Circular 109, Forest Service.)
- Exports and Imports of Forest Products: 1906. By R. S. Ke'logg, Chief, Office of Wood Utilization. Pp. 28. (Circular 110, Forest Service.)
- Publications for Free Distribution, Revised to July 1, 1907. Pp. 59. (Circular 2, Division of Publications.)
- Monthly List of Publications, July, 1907. Pp. 4. (Doc. 577, Division of Publications.)
- Crop Reporter, Vol. 9, No. 8, August, 1907. Pp. 57-64.
A two-column quarto publication devoted to agricultural statistics.

REPRINT.

Circular 24, Office of the Secretary. The Man Who Works with His Hands, Address of President Roosevelt at the Semi-Centennial Celebration of the Founding of Agricultural Colleges in the United States, at Lansing, Mich. May 31, 1907.

FARMERS' BULLETINS.

NEW.

- Sea Island Cotton; Its Culture, Improvement, and Diseases. By W. A. Orton, Pathologist, Bureau of Plant Industry. Pp. 48, figs. 13. (Farmers' Bulletin 302.)
Economic importance of the Sea Island cotton industry, geographical distribution and ideal requirements of the crop, possible extension, markets, factors governing prices, etc., with directions for the cultivation and handling of the crop and methods for treatment and prevention of diseases.
- Corn-Harvesting Machinery. By C. J. Zintheo, Expert in Farm Mechanics, Office of Experiment Stations. Pp. 32, figs. 20. (Farmers' Bulletin 303.)
This bulletin is a condensed summary of the report on corn-harvesting machinery published as Bulletin 173 of the Office of Experiment Stations, and contains illustrations of corn harvesters, binders, shockers, loaders, pickers, huskers, and shredders, with directions for their use.
- Experiment Station Work, XLII, Compiled from the Publications of the Agricultural Experiment Stations. Pp. 32. (Farmers' Bulletin 305.)
CONTENTS: Extension of rice culture—Growing seed potatoes under mulch—Manure as a summer mulch in forcing houses—Renewal of old orchards—Injury by Bordeaux mixture—Gluten flours and similar foods—Laxative properties of wheat bran—Emmer as a feeding stuff—Roots for farm animals—Cabbage as stock feed—Pasturing hogs—Cull beans as a feed for hogs—Healthy poultry.

SEPARATES, YEARBOOKS, DEPARTMENT OF AGRICULTURE.

- New Citrus Creations of the Department of Agriculture. By Herbert J. Webber and Walter T. Swingle, Bureau of Plant Industry. Pp. iii, 221-240, pls. 13, figs. 2. (Separate 343, Y. B. 1904.)
- Practical Road Building in Madison County, Tennessee. By Sam C. Lancaster, Chief Engineer, Madison County Good Roads Commission. Pp. ii, 323-340, pls. 5, figs. 5. (Separate 350, Y. B. 1904.)
- New Problems of the Weather. By Willis L. Moore, W. J. Humphreys, and O. L. Fassig, Weather Bureau. Pp. iii, 121-124, pls. 3. (Separate 410, Y. B. 1906.)
- Introduction of Elementary Agriculture into Schools. By A. C. True, Director of the Office of Experiment Stations. Pp. ii, 151-164. (Separate 413, Y. B. 1906.)
- The Use of Soil Surveys. By J. A. Bonsteel, Bureau of Soils. Pp. iii, 181-188. (Separate 415, Y. B. 1906.)
- Birds that Eat Scale Insects. By W. L. McAtee, Biological Survey. Pp. ii, 189-198, figs. 3. (Separate 416, Y. B. 1906.)
- The Game Warden of To-day. By R. W. Williams, jr., Biological Survey. Pp. iii, 213-224. (Separate 418, Y. B. 1906.)
- The Preparation of Unfermented Apple Juice. By H. C. Gore, Bureau of Chemistry. Pp. iii, 239-246, fig. 1. (Separate 420, Y. B. 1906.)

- Corn-breeding Work at the Experiment Stations. By J. I. Schulte, Office of Experiment Stations. Pp. ii, 279-294. (Separate 423, Y. B. 1906.)
- Distribution of Tuberculin and Mallein by the Bureau of Animal Industry. By M. Dorset, Bureau of Animal Industry. Pp. iii, 347-354. (Separate 428, Y. B. 1906.)
- Freight Costs and Market Values. By Frank Andrews, Bureau of Statistics. Pp. iii, 371-386. (Separate 430, Y. B. 1906.)
- Opportunities for Dairying. I. General. By Wm. Hart Dexter, Assistant Dairyman. II. New England. By George M. Whitaker, Dairy Inspector. III. The North Central States. By B. D. White, Expert in Dairying. IV. The South. By B. H. Rawl, Expert in Dairying. V. The Pacific Coast. By E. A. McDonald, Dairy Inspector. Pp. iii, 405-428. (Separate 432, Y. B. 1906.)
- National Forests and the Lumber Supply. By Thomas H. Sherrard, Forest Service. Pp. ii, 447-452. (Separate 434, Y. B. 1906.)
- A Directory for Farmers, corrected to April 1, 1907. Pp. iii, 453-472. (Separate 435, Y. B. 1906.)
- Agricultural Statistics, 1906. Principal Crops and Farm Animals, Transportation Rates, Exports and Imports of the United States, and International Trade in Agricultural Products. Pp. 542-693. (Separate 436, Y. B. 1906.)

PUBLICATIONS OF THE WEATHER BUREAU.

- Monthly Weather Review, Vol. XXXV, No. 5, May, 1907. Prepared under the direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 207-253, charts 9, figs. 4. (W. B. No. 373.) Price 20 cents; \$2.50 per year.
- National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. Issued each Monday in August. Nos. 21, 22, 23, 24.

GEO. WM. HILL,
Editor and Chief.

Approved:
JAMES WILSON,
Secretary of Agriculture.

No. 581.

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WASHINGTON, D. C., *September 30, 1907.*

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[SEPTEMBER, 1907.]

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ADVANCE SHEETS, SOIL SURVEY.

Soil Survey of Cass County, Michigan. By W. J. Geib. Pp. 30, fig. 1, map. (Field Operations, Bureau of Soils, 1906.)

Soil Survey of Chowan County, North Carolina. By W. Edward Hearn, Assisted by G. M. MacNider of the North Carolina Department of Agriculture. Pp. 26, fig. 1, map. (Field Operations, Bureau of Soils, 1906.)

REPORTS.

NEW.

Annual Report of the Hawaii Agricultural Experiment Station for 1906. By Jared G. Smith, Special Agent in Charge. Pp. 88, pls. 7.

Field Operations of the Bureau of Soils, 1905. (Seventh Report.) By Milton Whitney, Chief, with Accompanying Papers by Assistants in Charge of Field Parties. Pp. 1089, pls. 2, figs. 45, maps 47 (in pocket). (Seventh Report, Field Operations, Bureau of Soils. Price \$4.50 cloth.

BULLETINS.

NEW.

Official and Provisional Methods of Analysis, Association of Official Agricultural Chemists. As compiled by the Committee on Revision of Methods, November 1, 1906. Edited by Harvey W. Wiley, Secretary of the Association. Pp. 230, figs. 11. (Bulletin 107, Bureau of Chemistry.) Price 20 cents.

Irrigation in Northern Italy. Part II. By Elwood Mead, Chief of Irrigation Investigations. Pp. 86, pls. 4, figs. 2. (Bulletin 190, Office of Experiment Stations.) Price 15 cents.

Tests of Internal-combustion engines on Alcohol Fuel. By Charles Edward Lucke, Assistant Professor of Mechanical Engineering, Columbia University, and S. M. Woodward, Irrigation Engineer, Office of Experiment Stations. Pp. 89, pls. 20, figs. 13. (Bulletin 191, Office of Experiment Stations.) Price 20 cents.

Experiment Station Record, Vol. XVIII, No. 12, August, 1907. E. W. Allen, Ph. D., Editor. Pp. vi, 1101-1200. (No single copies of Vol. XVIII sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with volumes X-XVIII, at \$1, payable in advance. Beginning with Volume XIX the price will be \$1.50 per volume.

- Accessions to the Department Library. April-June, 1907. Pp. 75. (Bulletin 64, Library.) Price 15 cents.
- Miscellaneous Papers. I. Summary of Recent Investigations of the Value of Cacti as Stock Food. By David Griffiths, Assistant Agrostologist, and R. F. Hare, Chemist, New Mexico College of Agriculture and Mechanic Arts. II. A Successful Dairy Farm. By L. G. Dodge, Scientific Assistant. III. Planting a Cropping System. By W. J. Spillman, Agriculturist. IV. The Application of Vegetative Propagation to Leguminous Forage Plants. By J. M. Westgate, Assistant Agrostologist, and George W. Oliver, Plant Propagator. V. The Control of Texas Root-rot of Cotton. By C. L. Shear, Pathologist, and George F. Miles, Scientific Assistant. VI. The History of the Cowpea and Its Introduction into America. By W. F. Wight, Assistant Botanist. VII. A New Method for the Determination of Nicotine in Tobacco. By Wightman W. Garner, Scientific Assistant. Pp. 73, pls. 8, figs. 3. (Bulletin 102, Bureau of Plant Industry.) Price 15 cents.
- The Cold Storage of Small Fruits. By S. H. Fulton, Formerly Assistant Pomologist, Field Investigations in Pomology. Pp. 28, pls. 3. (Bulletin 108, Bureau of Plant Industry.) Price 15 cents.
- American Varieties of Garden Beans. By W. W. Tracy, Jr., Assistant Botanist, Vegetable Testing Gardens. Pp. 173, pls. 24. (Bulletin 109, Bureau of Plant Industry.) Price 25 cents.
- The Fibers of Long-staple Upland Cottons. By H. A. Allard, Scientific Assistant, Cotton Breeding Investigations. Pp. 7, pls. 2, figs. 3. (Bulletin 111, Part II, Bureau of Plant Industry.) Price 5 cents.
- Public-road Mileage, Revenues, and Expenditures in the United States in 1904. By Maurice O. Eldridge, Chief of Records, Office of Public Roads. Pp. 100, figs. 2. (Bulletin 32, Office of Public Roads.) Price 15 cents.
- The Moisture Equivalents of Soils. By Lyman J. Briggs and John W. McLane. Pp. 23, pl. 1, fig. 1. (Bulletin 45, Bureau of Soils.) Price 10 cents.

REPRINTS.

- Bulletin 13, Part 9, Bureau of Chemistry. Foods and Food Adulterants—Cereals and Cereal Products. Price 15 cents.
- Bulletin 75, Bureau of Chemistry. Sugar-cane Culture in the Southeast for the Manufacture of Table Sirup. Price 5 cents.
- Bulletin 77, Bureau of Chemistry. Olive Oil and Its Substitutes. Price 10 cents.
- Bulletin 81, Bureau of Chemistry. Proceedings of the Twentieth Annual Convention of the Association of Official Agricultural Chemists Held at Washington, D. C., November 19, 20, and 21, 1903. Price 15 cents.
- Bulletin 84, Part II, Bureau of Chemistry. Influence of Food Preservatives and Artificial Colors on Digestion and Health—Salicylic Acid and Salicylates. Price 30 cents.
- Bulletin 80, Bureau of Chemistry. Adulteration of Drugs and Chemicals. I. Inferior Drugs and Insidious Methods of Deception. II. Rose Geranium Oil and Its Substitutes. III. Phenacetin: Methods of Analysis and Commercial Status. Price 5 cents.
- Bulletin 91, Bureau of Chemistry. Mineral Waters of the United States. I. Classification and Methods of Analysis. II. Commercial Waters. III. Saratoga Waters Sampled at Source. Price 10 cents.
- Bulletin 98, Bureau of Chemistry. Drug Legislation in the United States. Price 25 cents.
- Bulletin 105, Bureau of Chemistry. Proceedings of the Twenty-third Annual Convention of the Association of Official Agricultural Chemists. Price 25 cents.
- Bulletin 61, Bureau of Entomology. The Laws in Force against Injurious Insects and Foul Brood in the United States. Price 25 cents.
- Bulletin 62, Bureau of Entomology. The San Jose or Chinese Scale. Price 25 cents.
- Bulletin 108, Office of Experiment Stations. Irrigation Practice among Fruit Growers on the Pacific Coast. Price 15 cents.
- Bulletin 185, Office of Experiment Stations. Iron in Food and Its Functions in Nutrition. Price 10 cents.
- Bulletin 3, Alaska Agricultural Experiment Stations. Haymaking at Kenai Experiment Station. Price 5 cents.

- Bulletin 37, Bureau of Forestry. Federal and State Forest Laws. Price 25 cents.
 Bulletin 57, Bureau of Forestry. Federal and State Forest Laws. Price 15 cents.
 Bulletin 98, Bureau of Plant Industry. Soy Bean Varieties. Price 15 cents.
 Bulletin 34, Bureau of Soils. Reclamation of Alkali Soils. Price 10 cents.
 Bulletin 41, Bureau of Soils. The Action of Water and Aqueous Solutions upon Soil Phosphates. Price 10 cents.

CIRCULARS.

NEW.

- Certificate and Control of Dyes Permissible for Use in Coloring Foods and Foodstuffs. Pp. 6. (Food Inspection Decision 77, Office of the Secretary.)
 Meat Inspection Rulings—2 A. Pp. 2. (Bureau of Animal Industry.)
 Mites and Lice on Poultry. By Nathan Banks, Assistant Entomologist. Pp. 8, figs. 6. (Circular 92, Bureau of Entomology.)
 Excavating Machinery Used for Digging Ditches and Building Levees. By J. O. Wright, Supervising Drainage Engineer, Irrigation and Drainage Investigations. Pp. 40, figs. 16. (Circular 74, Office of Experiment Stations.)
 List of Station Publications Received by the Office of Experiment Stations during August, 1907. Pp. 5. (Doc. 1037, Office of Experiment Stations.)
 Use of Dead Timber in the National Forests. By E. R. Hodson, Forest Assistant. Pp. 4. (Circular 113, Forest Service.)
 The Waning Hardwood Supply and the Appalachian Forests. By William L. Hall, Assistant Forester. Pp. 16, fig. 1. (Circular 116, Forest Service.)
 Monthly List of Publications, August, 1907. Pp. 4. (Doc. 578, Division of Publications.)
 Crop Reporter, Vol. 9, No. 9, September, 1907. Pp. 65-72. (Bureau of Statistics.)
 A two-column quarto publication devoted to agricultural statistics.

FARMERS' BULLETINS.

NEW.

- Growing and Curing Hops. By W. W. Stockberger, Expert, Drug-plant Investigations, Bureau of Plant Industry. Pp. 39, figs. 20. (Farmers' Bulletin 304.)
 This Bulletin gives the climatic and soil conditions essential to successful hop growing, directions for propagation, cultivation, pruning, training, picking, curing, and baling, with a statement as to cost and yield of crop, and suggestions for marketing.
 Dodder in Relation to Farm Seeds. By F. H. Hillman, Assistant Botanist, Bureau of Plant Industry. Pp. 27, figs. 10. (Farmers' Bulletin 306.)
 Character and varieties of the dodder plant, its preference for certain host plants, kinds of seeds infested, relation to seed trade, directions for detection, description and illustrations of seed, buying and cleaning of clover and alfalfa seeds, detection and destruction of plants in the field, etc.
 Game Laws for 1907. A Summary of the Provisions Relating to Seasons, Shipment, Sale, and Licenses. By T. S. Palmer, Henry Oldys, and Chas. E. Brewster, Assistants, Biological Survey. Pp. 52, figs. 4. (Farmers' Bulletin 308.)

SEPARATES.

YEARBOOK.

- The Present Status of the Nitrogen Problem. By A. F. Woods, Pathologist and Physiologist, Bureau of Plant Industry. Pp. iii, 125-136. (Sep. 411, Y. B. 1906.)
 Object-lesson Roads. By Logan Waller Page, Director, Office of Public Roads. Pp. ii, 137-150, pls. 4. (Sep. 412, Y. B. 1906.)
 Cage-bird Traffic of the United States. By Henry Oldys, Assistant, Biological Survey. Pp. iii, 165-180, pls. 2. (Sep. 414, Y. B. 1906.)
 The Use of Soil Surveys. By J. A. Bonsteel, In Charge of Soil Survey, Bureau of Soils. Pp. iii, 181-188. (Sep. 415, Y. B. 1906.)
 The Effect of Climatic Conditions on the Composition of Durum Wheat. By J. A. LeClerc, Bureau of Chemistry. Pp. ii, 199-212, pls. 2. (Sep. 417, Y. B. 1906.)
 Range Management. By J. S. Cotton, Assistant, Bureau of Plant Industry. Pp. ii, 225-238, pl. 1. (Sep. 419, Y. B. 1906.)
 Foreign Restrictions on American Meat. By Frank R. Rutter, Assistant Chief, Foreign Markets, Bureau of Statistics. Pp. iii, 247-264, figs. 2. (Sep. 421, Y. B. 1906.)

- Methods of Reducing the Cost of Producing Beet Sugar. By C. O. Townsend, Pathologist in Charge of Sugar-beet Investigations, Bureau of Plant Industry. Pp. ii, 265-278, pls. 2, figs. 2. (Sep. 422, Y. B. 1906.)
- Nuts and Their Uses as Food. By M. E. Jaffa, Assistant Professor of Nutrition, University of California. Pp. ii, 295-312, pl. 1, fig. 1. (Sep. 424, Y. B. 1906.)
- Some Recent Studies of the Mexican Cotton Boll Weevil. By W. D. Hunter, In Charge of Cotton Boll Weevil Investigations, Bureau of Entomology. Pp. iii, 313-324, pl. 1, fig. 1. (Sep. 425, Y. B. 1906.)
- New Citrus and Pineapple Productions of the Department of Agriculture. By Herbert J. Webber, Physiologist in Charge of Plant Breeding Investigations, Bureau of Plant Industry. Pp. ii, 329-346, pls. 8, fig. 1. (Sep. 427, Y. B. 1906.)
- New Tobacco Varieties. By A. D. Shamel, Physiologist in Charge of Tobacco Breeding Investigations, Bureau of Plant Industry. Pp. ii, 387-404, pls. 4, figs. 4. (Sep. 431, Y. B. 1906.)
- Lime-sulphur Washes for the San Jose Scale. By A. L. Quaintance, In Charge of Deciduous-fruit Insect Investigations, Bureau of Entomology. Pp. ii, 429-446, pls. 3, figs. 2. (Sep. 433, Y. B. 1906.)
- Progress of Forestry in 1906 (with Forestry Directory). By Quincy R. Craft, Forest Service. Pp. 1-13, pl. 1, figs. 2. (Sep. 439, Y. B. 1906.)
- Game Protection in 1906. By T. S. Palmer, Assistant, Biological Survey. Pp. iii, 533-540. (Sep. 440, Y. B. 1906.)

ANNUAL REPORT, OFFICE OF EXPERIMENT STATIONS.

- Work and Expenditures of the Agricultural Experiment Stations for the Year Ended June 30, 1906. By A. C. True and E. W. Allen. Pp. v, 49-170, pls. 8. (Doc. 1023, Office of Experiment Stations.)
- Statistics of Land-grant Colleges and Agricultural Experiment Stations, 1906. Compiled by Miss M. T. Spethmann. Pp. ii, 177-212. (Doc. 1024, Office of Experiment Stations.)
- Progress in Agricultural Education, 1906. By Dick J. Crosby, Expert in Agricultural Education, Office of Experiment Stations. Pp. v, 213-300, pls. 3, fig. 1. (Doc. 1025, Office of Experiment Stations.)
- The Farmers' Institutes in the United States, 1906. By John Hamilton, Farmers' Institute Specialist, Office of Experiment Stations. Pp. iii, 310-357. (Doc. 1026, Office of Experiment Stations.)
- The Nutrition Investigations of the Office of Experiment Stations and Their Results. By C. F. Langworthy, in Charge of Nutrition Investigations. Pp. ii, 359-372. (Doc. 1027, Office of Experiment Stations.)
- Reclamation of Tide Lands. By J. O. Wright, Supervising Drainage Engineer, Office of Experiment Stations. Pp. iv, 373-397, pls. 5, figs. 6. (Doc. 1028, Office of Experiment Stations.)
- Experiment Station Work with Peaches. By C. B. Smith, Office of Experiment Stations. Pp. iv, 399-434, figs. 6. (Doc. 1029, Office of Experiment Stations.)

PUBLICATIONS OF THE WEATHER BUREAU.

- Monthly Weather Review, Vol. XXXV, No. 6, June, 1907. Prepared under the Direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 255-301, charts 6, figs. 5. (W. B. No. 374.) Price 20 cents; \$2.50 per year.
- Meteorological Chart of the Great Lakes. Summary for the Season of 1906. No. 2, 1906. By Alfred J. Henry and Norman B. Conger. Pp. 12, chart 1. (W. B. No. 375.) Price 10 cents.
- Meteorological Chart of the Great Lakes, No. 1, 1907. By Alfred J. Henry and Norman B. Conger. Pp. 29, pls. 2. (W. B. No. 000.) Price 10 cents.
- National Weekly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. Issued each Monday in September. Nos. 25, 26, 27, 28, 29.

GEO. WM. HILL,
Editor and Chief.

Approved:
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MONTHLY LIST OF PUBLICATIONS.

[OCTOBER, 1907.]

NOTE.—To obtain those publications to which a price is affixed, application must be made to the Superintendent of Documents, Government Printing Office, Washington, D. C., to whom all remittances must be directed. Stamps and personal checks will not be accepted.

THE SUPERINTENDENT OF DOCUMENTS IS NOT AN OFFICIAL OF THE DEPARTMENT OF AGRICULTURE.

Publications for free distribution may be obtained on application to the Secretary of Agriculture, Washington, D. C. Free publications are not distributed by the Superintendent of Documents. In all cases where officials desire to exchange publications application should be made to the Department of Agriculture.

The Department of Agriculture does not distribute nor control the distribution of publications of the State Agricultural Experiment Stations. Application for them should be made to the several stations in the different States.

ADVANCE SHEETS, SOIL SURVEY.

- Soil Survey of the Fayetteville Area, Arkansas. By Henry J. Wilder and Charles F. Shaw. Pp. 45, fig. 1, map. (F. O. Bureau of Soils, 1906.)
- Soil Survey of Prairie County, Arkansas. By William T. Carter, jr., F. N. Meeker, Howard C. Smith, and E. L. Worthen. Pp. 36, fig. 1, map. (F. O. Bureau of Soils, 1906.)
- Soil Survey of the Tishomingo Area, Indian Territory. By Thomas D. Rice and Orla L. Ayrs. Pp. 28, fig. 1, map. (F. O. Bureau of Soils, 1906.)
- Soil Survey of Greene County, Indiana. By W. E. Tharp and Charles J. Mann. Pp. 39, fig. 1, map. (F. O. Bureau of Soils, 1906.)
- Soil Survey of Blue Earth County, Minnesota. By Hugh H. Bennett and Lewis A. Hurst. Pp. 55, fig. 1, map. (F. O. Bureau of Soils, 1906.)
- Soil Survey of the Crookston Area, Minnesota. By A. W. Mangum and F. C. Schroeder. Pp. 31, fig. 1, map. (F. O. Bureau of Soils, 1906.)
- Soil Survey of Ransom County, North Dakota. By Charles W. Ely, assisted by Rex E. Willard and J. T. Weaver. Pp. 39, fig. 1, map. (F. O. Bureau of Soils, 1906.)
- Soil Survey of the Henderson Area, Texas. By Charles W. Ely and A. E. Kocher. Pp. 26, fig. 1, map. (F. O. Bureau of Soils, 1906.)

BULLETINS.

NEW.

- The Relation of Birds to the Cotton Boll Weevil. By Arthur H. Howell, Assistant Biologist, Biological Survey. Pp. 31, Frontispiece, figs. 6. (Bulletin 29, Biological Survey.) Price, 10 cents.
- An Economic Study of Field Mice. (Genus *Microtus*.) By David E. Lantz, Assistant, Biological Survey. Pp. 64, pls. 8, figs. 3. (Bulletin 31, Biological Survey.) Price, 15 cents.
- The Trumpet Leaf-miner of the Apple. By A. L. Quaintance, In Charge of Deciduous Fruit Insect Investigations. Pp. iii, 23–30, pl. 1, fig. 1. (Bulletin 68, Part III, Bureau of Entomology.) Price, 5 cents.
- The Lesser Peach Borer. By A. A. Girault, Assistant. Pp. ii, 31–48, pl. 1, fig. 1. (Bulletin 68, Part IV, Bureau of Entomology.) Price, 5 cents.
- The More Important Aleyrodidae Infesting Economic Plants, with Description of a New Species Infesting the Orange. By A. L. Quaintance. Pp. iv, 89–94, pl. 1, figs. 2. (Bulletin 12, Part V, Technical Series, Bureau of Entomology.) Price, 5 cents.

Studies of the Effect of Different Methods of Cooking upon the Thoroughness and Ease of Digestion of Meat at the University of Illinois. By H. S. Grindley, Professor of General Chemistry, University of Illinois, with the cooperation of Timothy Mojonner and Horace C. Porter. Pp. 100. (Bulletin 193, Office of Experiment Stations.) Price, 15 cents.

A Review of Investigations in Soil Facteriology. By Edward B. Voorhees, Director, New Jersey Agricultural Experiment Stations, and Jacob G. Lipman, Soil Chemist and Bacteriologist, New Jersey Agricultural Experiment Stations. Pp. 108. (Bulletin 194, Office of Experiment Stations.) Price, 15 cents.

Experiment Station Record, Vol. XIX, No. 1, September, 1907. E. W. Allen, Ph. D., Editor. Pp. ix, 1-100. (No single copies of Vol. XIX sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with volumes X-XVIII, at \$1, payable in advance. Beginning with Volume XIX the price will be \$1.50 per volume.

Cultivation of Tobacco in Hawaii. By Jared G. Smith, Hawaii Experiment Station, and Charles R. Blacow, Assistant. Pp. 29, pls. 3, figs. 4. (Bulletin 15, Hawaii Agricultural Experiment Station, Office of Experiment Stations.) Price, 10 cents.

Contents of and Index to Bulletins of the Bureau of Plant Industry Nos. 1 to 100, inclusive. By J. E. Rockwell, Editor of Bureau. Pp. 102. (Bulletin 101, Bureau of Plant Industry.) Price, 15 cents.

American Root Drugs. By Alice Henkel, Assistant, Drug-Plant Investigations. Pp. 80. (Bulletin 107, Bureau of Plant Industry.) Price, 15 cents.

Cranberry Diseases. By C. L. Shear, Pathologist, etc. Pp. 64, pls. 7. (Bulletin 110, Bureau of Plant Industry.) Price, 20 cents.

The Comparative Tolerance of Various Plants for the Salts Common in Alkali Soils. By T. H. Kearney, Physiologist, etc., and L. L. Harter, Assistant Physiologist. Pp. 22. (Bulletin 113, Bureau of Plant Industry.) Price, 5 cents.

The Disinfection of Sewage Effluents for the Protection of Public Water Supplies. By Karl F. Kellerman, Physiologist, etc., R. Winthrop Pratt, Ohio State Board of Health, and A. Elliott Kimberly. Pp. 47. (Bulletin 115, Bureau of Plant Industry.) Price, 10 cents.

Imports of Farm and Forest Products, 1904-1906, by Countries from which Consigned. Pp. 58. (Bulletin 52, Bureau of Statistics.) Price, 10 cents.

Exports of Farm and Forest Products, 1904-1906, by Countries to which Consigned. Pp. 68. (Bulletin 53, Bureau of Statistics.) Price, 10 cents.

Trade with Noncontiguous Possessions in Farm and Forest Products, 1904-1906. Pp. 40. (Bulletin 54, Bureau of Statistics.) Price, 10 cents.

Meat Supply and Surplus, with Consideration of Consumption and Exports. By George K. Holmes, Chief of Division of Foreign Markets. Pp. 100. (Bulletin 55, Bureau of Statistics.) Price, 15 cents.

Ocean Freight Rates and the Conditions Affecting Them. By Frank Andrews, Scientific Assistant in Transportation, Division of Foreign Markets. Pp. 43. (Bulletin 67, Bureau of Statistics.) Price, 10 cents.

REPRINTS.

Bulletin 96, Bureau of Animal Industry. A Comparative Study of Tubercle Bacilli from Varied Sources. Price, 40 cents.

Bulletin 46, revised, Division of Chemistry. Methods of Analysis Adopted by the Association of Official Agricultural Chemists, November 11, 12, and 14, 1898. Price, 5 cents.

Bulletin 65, Bureau of Chemistry. Provisional Methods for the Analysis of Foods Adopted by the Association of Official Agricultural Chemists, November 14-16, 1901. Price, 10 cents.

Bulletin 90, Bureau of Chemistry. Proceedings of the Twenty-first Annual Convention of the Association of Official Agricultural Chemists held at St. Louis, Mo., September 26, 27, and 28, 1904. Price, 15 cents.

Bulletin 92, Bureau of Chemistry. The Effect of Water on Rock Powders. Price, 15 cents.

Bulletin 60, Bureau of Entomology. Proceedings of the Eighteenth Annual Meeting of the Association of Economic Entomologists. Price, 20 cents.

Bulletin 186, Office of Experiment Stations. Exercises in Elementary Agriculture. Plant Production. Price, 10 cents.

CIRCULARS.

NEW.

- The Unproductive Farm. Pp. 8. (Circular 25, Office of the Secretary).
- Notes on Parasitic Nematodes, Including Descriptions of New Genera and Species, and Observations on Life Histories. By Brayton H. Ransom, Chief of the Zoological Division. Pp. 7. (Circular 116, Bureau of Animal Industry.)
- A City Milk and Cream Contest as a Practical Method of Improving the Milk Supply. By C. B. Lane, Assistant Chief of the Dairy Division, and Ivan C. Weld, Assistant Dairyman, Dairy Division. Pp. 28. (Circular 117, Bureau of Animal Industry.)
- Directions for the Use of Blackleg Vaccine. Pp. 8. (Circular 23, Third revision, Bureau of Animal Industry.)
- Organization of the Bureau of Chemistry. (Revised to July 1, 1907.) 1p. 23. (Circular 14, Revised, Bureau of Chemistry.)
- Officials charged with the Enforcement of Food Laws in the United States and Canada. (Revised to July 1, 1907.) Pp. 32. (Circular 16, Revised, Bureau of Chemistry.)
- The Most Important Step in the Control of the Boll Weevil. By W. D. Hunter, Assistant. Pp. 8. (Circular 95, Bureau of Entomology.)
- Publications of the Office of Experiment Stations from its Organization to June 30, 1907. Pp. 20. (Circular 70, Revised, Office of Experiment Stations.)
- Swamp and Overflowed Lands in the United States. Ownership and Reclamation. By J. O. Wright, Supervising Drainage Engineer. Pp. 23, pl. 1. (Circular 76, Office of Experiment Stations.)
- List of Station Publications Received by the Office of Experiment Stations during September, 1907. (Doc. 1044, Office of Experiment Stations.)
- List of Publications of the Office of Experiment Stations on Irrigation and Drainage. (Corrected to October 1, 1907.) Pp. 12. (Doc. 1046, Office of Experiment Stations.)
- Eucalypts. Pp. 13. (Circular 59, Revised, Forest Service.)
- Black Locust (*Robinia pseudacacia*). Pp. 4. (Circular 64, Revised, Forest Service.)
- Prolonging the Life of Mine Timbers. By John M. Nelson, jr., Forest Assistant. Pp. 22, figs. 8. (Circular 111, Forest Service.)
- Second Progress Report on the Strength of Structural Timber. By W. Kendrick Hatt, Civil Engineer, Forest Service. Pp. 39, diagrams, 4. (Circular 115, Forest Service.)
- Publications for Sale. Revised to October 1, 1907. Pp. 93. (Circular 3, Division of Publications.)
- Monthly list of Publications, September, 1907. Pp. 4. (Doc. 581, Division of Publications.)
- Publications of the Office of Public Roads. Pp. 5. (Circular 88, Office of Public Roads.)
- Crop Reporter, Vol. 9, No. 10, October, 1907. Pp. 73-80. (Bureau of Statistics.)
- A two-column quarto publication devoted to agricultural statistics.

FARMERS' BULLETINS.

NEW.

- Roselle: Its Culture and Uses. By P. J. Wester, Special Agent. Pp. 16. figs. 6. (Farmers' Bulletin 307.)
- History, geographical distribution, botanical characteristics, varieties, cultivation, uses, etc., of the roselle plant, with a statement of its composition, its fungous diseases and insect enemies.
- Experiment Station Work, XLIII, Compiled from the Publications of the Agricultural Experiment Stations. Pp. 32. (Farmers' Bulletin 309.)
- Contents: Ice for household—Culture and varieties of root crops—Cowpeas and soy beans—Silage from frosted corn—Cooperation in marketing crops—Incubation of eggs—Causes of death of young chicks—Snow for poultry—Eradication of cattle ticks—Bacteria in cream.

SEPARATES.

YEARBOOK.

Promising New Fruits. By William A. Taylor, Pomologist, etc. Pp. iii, 355-370, pls. 8. (Sep. 429, Yearbook 1906.)

The Principal Injurious Insects of 1906. Prepared in the Bureau of Entomology. Pp. 508-517. (Sep. 438, Yearbook 1906.)

SPECIAL REPORT ON DISEASES OF THE HORSE, REVISED EDITION, 1907.

Osteoporosis, or Bighead. By John R. Mohler, Chief of Pathological Division, Bureau of Animal Industry. Pp. 554-558. (Sep. Special Rpt. Dis. of the Horse, 1907.)

NOTE.—This article was inserted in the revised edition and constituted about the only change made in the Congressional reprint of 1907. It will be sent upon application to persons who have received the previous edition of the Special Report on Diseases of the Horse, as the two documents together compose the revised edition of 1907, the departmental quota of which is too small to permit of distribution to miscellaneous applicants, who should apply to their Senators, Representatives, or Delegates in Congress.

PUBLICATIONS OF THE WEATHER BUREAU.

Monthly Weather Review, Vol. XXXV, No. 7, July, 1907. Prepared under the Direction of Willis L. Moore, Chief, U. S. Weather Bureau. Pp. 303-343, figs. 5, charts 7. (W. B. No. 377.) Price, 20 cents; \$2.50 per year.

National Monthly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. No. 30.

GEO. WM. HILL,
Editor and Chief.

Approved.

JAMES WILSON,
Secretary of Agriculture.

This circular will be sent regularly to all who apply for it.

No. 587.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS.

WASHINGTON, D. C., November 30, 1907.

MONTHLY LIST OF PUBLICATIONS.

[NOVEMBER, 1907.]

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ADVANCE SHEETS, SOIL SURVEY.

Soil Survey of Madison County, New York. By M. Earl Carr, A. M. Griffen, and Ora Lee, jr. Pp. 51, fig. 1, map. (F. O. Soils, 1906.)

Soil Survey of Transylvania County, North Carolina. By W. Edward Hearn, assisted by G. M. MacNider, of the North Carolina Department of Agriculture. Pp. 25, fig. 1, map. (F. O. Soils, 1906.)

Soil Survey of Madison County, Tennessee. By W. S. Lyman, Frank Bennett, and W. E. McLendon. Pp. 18, fig. 1, map. (F. O. Soils, 1906.)

Soil Survey of Racine County, Wisconsin. By Grove B. Jones and Orla L. Ayrs. Pp. 25, fig. 1, map. (F. O. Soils, 1906.)

REPORTS.

NEW.

Report of the Secretary of Agriculture. 1907. Pp. 153.

REPRINT.

Progress of the Beet-sugar Industry in the United States in 1906. (Report 84, Office of the Secretary.) Price 15 cents.

BULLETINS.

NEW.

Birds of California in Relation to the Fruit Industry. Part I, By F. E. L. Beal, Assistant, Biological Survey. Pp. 100, pls. 5. (Bulletin 30, Biological Survey.) Price 20 cents.

Proceedings of the Nineteenth Annual Meeting of the Association of Economic Entomologists. Pp. 145, pl. 1, figs. 7. (Bulletin 67, Bureau of Entomology.) Price 20 cents.

Information concerning the North American Fever Tick, with Notes on Other Species. By W. D. Hunter and W. A. Hooker. Pp. 87, pls. 4, figs. 13. (Bulletin 72, Bureau of Entomology.) Price 15 cents.

Experiment Station Record, Vol. XVIII, Subject Index. 1906-1907. E. W. Allen, Ph. D., Editor. Pp. xx, 1201-1297, figs. 2. (No single copies of Vol. XVIII sold.)

Experiment Station Record, Vol. XIX, No. 2, October, 1907. E. W. Allen, Ph. D., Editor. Pp. ix, 101-200.

Experiment Station Record, Vol. XIX, No. 3, November, 1907. E. W. Allen, Ph. D., Editor. Pp. viii, 201-300. (No single copies of Vol. XIX sold.)

The Record contains numerous abstracts of the publications of the agricultural experiment stations and kindred institutions in this and other countries; articles and editorials on topics of special interest in agricultural science by American and foreign experts, and notes on the experiment stations.

NOTE.—For the convenience of those who desire to receive this publication regularly the Superintendent of Documents has decided to fix the price per volume (12 numbers), beginning with Volume XIX, at \$1.50 per volume, payable in advance.

Imported Low-grade Clover and Alfalfa Seed. By Edgar Brown, Botanist in Charge of Seed Laboratory, and Mamie L. Crosby, Assistant, Seed Laboratory. Pp. 18, pl. 1, fig. 1. (Bulletin 111, Part 3, Bureau of Plant Industry.) Price 5 cents.

Index to Farmers' Bulletins Nos. 1-250. Prepared by Charles H. Greathouse, in Charge of Indexing, Division of Publications. Pp. 148. (Bulletin 8, Division of Publications.) Price 15 cents.

Certain Organic Constituents of Soils in Relation to Soil Fertility. By Oswald Schreiner and Howard S. Reed, assisted by J. J. Skinner. Pp. 52, pls. 6. (Bulletin 47, Bureau of Soils.) Price 10 cents.

The Action of Water and Aqueous Solutions upon Soil Carbonates. By Frank K. Cameron and James M. Bell. Pp. 64, figs. 5. (Bulletin 49, Bureau of Soils.) Price 10 cents.

Oat Crops of the United States, 1866-1906. Prepared under the direction of Charles C. Clark, Assistant Statistician. Pp. 35. (Bulletin 58, Bureau of Statistics.) Price 10 cents.

REPRINTS.

Bulletin 93, Bureau of Animal Industry. The Relation of Tuberculous Lesions to the Mode of Infection. Price 5 cents.

Bulletin 99, Bureau of Animal Industry. The Danger from Tubercle Bacilli in the Environment of Tuberculous Cattle. Price 5 cents.

Bulletin 160, Office of Experiment Stations. School Gardens; A Report upon Some Cooperative Work with the Normal Schools of Washington, with Notes on School-garden Methods followed in Other American Cities. Price 10 cents.

Bulletin 39, Bureau of Statistics. Meat in Foreign Markets. Tariffs of Fourteen Importing Nations, and Countries of Surplus. Price 5 cents.

Bulletin 40, Bureau of Statistics. Meat Animals and Packing-house Products Imported into Eleven Principal Countries, 1895-1904. Price 5 cents.

Bulletin 41, Bureau of Statistics. Norway, Sweden, and Russia as Markets for Packing-house Products. Imports from Principal Countries, 1895-1904. Price 5 cents.

Bulletin 55, Bureau of Statistics. Meat Supply and Surplus, with Consideration of Consumption and Exports. Price 15 cents.

CIRCULARS.

NEW.

Blackleg: Its Nature, Cause, and Prevention. Revised by John R. Mohler, Chief of Pathological Division, Bureau of Animal Industry. Pp. 24, fig. 1. (Circular 31, Second Revision, Bureau of Animal Industry.)

List of Publications of the Biological Survey, Department of Agriculture, 1907. Pp. 8. (Circular 60, revised, Biological Survey.)

General Results of the Investigations Showing the Effect of Sulphurous Acid and Sulphites upon Digestion and Health. Pp. 18, fig. 1. (Circular 37, Bureau of Chemistry.)

Experimental Work with Pure Yeast Cultures in Determining the Chemical Character of the Fermented Products. Pp. 3. (Chemistry Miscellaneous.)

Syllabus of Illustrated Lecture on Farm Architecture. By Elmina T. Wilson, formerly Assistant Professor of Civil Engineering, Iowa State College. Pp. 19. (Farmers' Institute Lecture 8, Office of Experiment Stations.)

Syllabus of Illustrated Lecture on Tobacco Growing. By J. N. Harper, Director Agricultural Experiment Station, Clemson College, South Carolina. Pp. 15. (Farmers' Institute Lecture 9, Office of Experiment Stations.)

List of Station Publications received by the Office of Experiment Stations during October, 1907. Pp. 5. (Doc. 1048, Office of Experiment Stations.)

List of Publications of the Office of Experiment Stations on Agricultural Education, Corrected to November 1, 1907. Pp. 12. (Doc. 1051, Office of Experiment Stations.)

List of Publications of the Office of Experiment Stations on the Food and Nutrition of Man, Corrected to October 15, 1907. Pp. 16. (Doc. 1052, Office of Experiment Stations.)

The Forest Service: What It Is and How It Deals with Forest Problems. Pp. 39. (Circular 36, Fourth Edition, Forest Service.)

Wood Distillation. By W. C. Geer, Expert. Pp. 8. (Circular 114, Forest Service.)

Production of Slack Cooperage Stock in 1906. By W. M. Steuart and J. E. Whelchel, of the Census Bureau, Department of Commerce and Labor, and R. S. Kellogg, and H. M. Hale, of the Forest Service. Pp. 8. (Circular 123, Forest Service.)

Consumption of Cross-ties in 1906. Compiled by W. M. Steuart and J. E. Whelchel, of the Census Bureau, Department of Commerce and Labor, and R. S. Kellogg, and H. M. Hale, of the Forest Service. Pp. 6. (Circular 124, Forest Service.)

Forest Tables—Lodgepole Pine. Compiled by E. A. Ziegler, Forest Assistant. Pp. 24. (Circular 125, Forest Service.)

The Drain upon the Forests. By R. S. Kellogg, Chief, Office of Wood Utilization. Pp. 16, figs. 8. (Circular 129, Forest Service.)

Monthly List of Publications, October, 1907. Pp. 4. (Doc. 585, Division of Publications.)

List of Soil Surveys. Pp. 8. (Miscellaneous, Bureau of Soils.)

Crop Reporter, Vol. 9, No. 11, November, 1907. Pp. 81-88. (Bureau of Statistics.)
A two-column quarto publication devoted to agricultural statistics.

REPRINTS.

Circular 21, Office of the Secretary. Rules and Regulations for the Enforcement of the Food and Drugs Act.

Circular 25, Office of the Secretary. The Unproductive Farm.

Circular 69, Bureau of Animal Industry. Texas Fever, or Southern Cattle Fever.

Circular 70, Bureau of Animal Industry. Tuberculosis of Cattle.

Circular 106, Bureau of Animal Industry. Publications of the Bureau of Animal Industry.

Circular 114, Bureau of Animal Industry. Sanitary Milk Production.

Circular 76, Office of Experiment Stations. Swamp and Overflowed Lands in the United States. Ownership and Reclamation.

Circular 35, Forest Service. Forest Preservation and National Prosperity.

Circular 54, Forest Service. How to Cultivate and Care for Forest Plantations on the Semiarid Plains.

Circular 84, Forest Service. White Ash (*Fraxinus americana*).

Circular 85, Forest Service. Slippery Elm (*Ulmus pubescens*).

Circular 86, Forest Service. Boxelder (*Acer negundo*).

Circular 87, Forest Service. White Willow (*Salix alba*).

Circular 88, Forest Service. Black Walnut (*Juglans nigra*).

Circular 89, Forest Service. Tamarack (*Larix laricina*).

Circular 90, Forest Service. Osage Orange (*Toxylon pomiferum*).

Circular 91, Forest Service. Coffeetree (*Gymnocladus dioica*).

- Circular 92, Forest Service. Green Ash (*Fraxinus lanceolata*).
 Circular 93, Forest Service. Yellow poplar (*Liriodendron tulipifera*).
 Circular 94, Forest Service. Black Cherry (*Prunus serotina*).
 Circular 95, Forest Service. Sugar Maple (*Acer saccharum*).
 Circular 103, Forest Service. Seasoning of Telephone and Telegraph Poles.
 Circular 105, Forest Service. White Oak in the Southern Appalachians.

FARMERS' BULLETIN.

NEW.

- A Successful Southern Hay Farm. By Harmon Benton, Assistant Agriculturist, Farm Management Investigations, Bureau of Plant Industry. Pp. 16. (Farmers' Bulletin 312.)

This bulletin gives the details of the management, cultural methods, equipment, cost, etc., of a twenty-five acre hay farm in Cherokee County, South Carolina, with some general suggestions for hay growers in the South.

SEPARATES.

YEARBOOK, 1901.

- A Working Plan for Southern Hardwoods, and Its Results. By John Foley, Field Assistant, Bureau of Forestry. Pp. ii, 471-476, pls. 3. (Y. B. Separate 249.)

YEARBOOK, 1906.

- Plant Diseases in 1906. By W. A. Orton, Plant Pathologist, Bureau of Plant Industry. Pp. iii, 499-508. (Y. B. Separate, 437.)

ANNUAL REPORT OF THE OFFICE OF EXPERIMENT STATIONS, 1906.

- Experiment Station Work with Peaches. By C. B. Smith, Office of Experiment Stations. Pp. 434, figs. 6. (Doc. 1029, Office of Experiment Stations.)

PUBLICATIONS OF THE WEATHER BUREAU.

- Monthly Weather Review. Vol. XXXV, No. 8. August, 1907. Prepared under the Direction of Willis L. Moore, Chief U. S. Weather Bureau. Pp. 345-388, figs. 2, charts 6. (W. B. No. 378.) Price, 20 cents; \$2.50 per year.

- National Monthly Weather Bulletin, reporting temperature and rainfall, with a summary of weather conditions by sections throughout the United States. No. 30.

JOS. A. ARNOLD, *Acting Editor and Chief.*

Approved:

JAMES WILSON,
Secretary of Agriculture.